4/11A
49

VOL. 32.

A. W. Stelfox
11th April 1964.

DIARY

OF

HYMENOPTERA, OTHER INSECTS, PLANTS, &c,

SEEN OR TAKEN BY A.W. STELFOX

FROM 11th APRIL 1964

UNTIL 15th AUGUST 1965.

11th April 1964. Saturday.

After a dry & mild night, we had a pleasant sunny forenoon, but a cloudy & overcast though warm [illegible] afternoon, when [illegible] Mrs. [illegible] (our neighbours in St. [illegible] Ave.) brought Mrs. [illegible] & a daughter of Canon Harvey Jennings, [illegible] (that of Glendalough & lifelong friend of J. P. Brunker) to [illegible] in the garden. Luckily a dry, cool spell occurred while they were in the garden.

In forenoon, between 7.44 & 12.05, [illegible] David Harris brought the [illegible] with new greenhouse & connected it with the water tube which Mr. Caldwell had installed last week, while I washed the [illegible] the Scotch [illegible] & upper path in back garden & [illegible] in the garden. After dinner I [illegible] of the new greenhouse. In evening Mrs. Edgar called to tell us of the [illegible] Caldwell's death in [illegible] Hospital this morning!

A lovely first ♀ Bombus pratorum watched in back garden this afternoon.

12th April. Sunday. After some drizzle with S. wind in early morning, wind veered W., freshened, & we had a sunny [illegible] afternoon, but cooler than yesterday. Weeding in garden in forenoon, [illegible] the [illegible] from 2.0 till 3.30 in afternoon & on returning saw a Small Tortoiseshell Butterfly in front border. Later got more weeding of paths & had a tremendous catch of slugs out of [illegible] of the [illegible].

13th April. A lovely sunny, dry & warm forenoon & until 4 P.M. when rain fell at intervals in squally showers, till at least 5 P.M. In forenoon I had to dig out Geranium farreri from the "new border" in back garden as its shoots had penetrated neighbouring plants in all directions; these underground shoots are like strings of beans with oval expansions at short distances apart.

13.4.1964, cont. Having given a piece of the G. farreri to Mr & Mrs. Collum & Mr. Dickson & kept a piece for a pot in new greenhouse, I planted all the rest in the border between the drive & the lawn in front garden, where it can spread if it can! After dinner I cut front lawn & got this done before the first shower here though several had just missed us previously. Then I lit bonfire & just got it going when first shower passed over.

At 5.30 the U.T.A. delivered the dozen Pelargoniums which I had ordered from Woodville Nursery, Cragg Vale, Halifax, Yorkshire, & which had been put on a passenger train on Last Wed. A.M. 8th April. In spite of delay they were in excellent condition in little 2" paper pots, each wrapped separately in sheets of newspaper & held by an elastic band.

14th April. A similar day - fine & sunny early, with showers from noon onwards, after a very windy (W-SW) night: wind light SW, except in showers during the day. Got grass in [illegible] cut just before first shower & spent rest of the day getting the 12 Pelargoniums potted, watered, & brought all & also the remainder of the Knap Hill Rhododendrons (those not already in!) into the new greenhouse, with a few other plants (Saxifraga, Geranium farreri).

15th April After a fine night & early morning, wind backed to SE & we had terrific rain till nearly 4 P.M. & then a nice sunny evening with light SW wind. In forenoon I did the [illegible] & after dinner I potted a few more plants for the new greenhouse, namely, Viola reichenbachiana, & Viola riviniana, Saxifraga spathularis, hirsuta & 2 hybrids. After tea when in garden I saw a ♀ Bombus hortorum at flowers of Pulmonaria. When out for a walk to the [illegible] Falls Daisy heard several Willow Warblers, the first we have heard, but Mrs Jennings reported hearing one on 11th or 12th (? which)

16th April 1964.

A very nice dry sunny day, in spite of "cloud & showers" forecast, with light cool E (on shore!) breeze. Very hot sun at times! Spent most of forenoon trying to get Lathyrus pratensis out of border between the drive & the lawn just E. of the steps, while planting out the last three indoor hyacinths, one pink, one blue, beside the creamy yellow already there. In afternoon I did some weeding in back garden & then helped Daisy to sow the second row of peas in upper plot next compost heap, those in first row having come through soil two days ago & been attacked by a young Arion ater slug, but meta I put down last night did for him & another slug (not found). Saw a ♀ Bombus jonellus at the flowers of Erica mediterranea. Skimmia with one flower on it by the lawn path in back garden & quite a few Rhodos. & azaleas, etc., coming into flower. The first flowers opened on both pear & apple cordons simultaneously this year a few days ago: normally the pear is over before the apple commences to flower. Took 2 photos to finish the autumn roll of transparencies & posted same at 5.30 P.M.: these were the Viburnum carlesii in front lawn & 2 around plastic pond in back garden, all in [illegible] at 1/60 of a second, but the first of these was taken at 20 ft. instead of 40 ft. & may not be quite in focus.

17th April. After very heavy rain during the early hours & SE wind, it cleared after breakfast & from 11 A.M. till sunset we had a beautifully sunny day, with strong glare, but light cool E. breeze. Spent most of the day clearing up the back of the wee burn in back garden opposite Mrs. McCollum's. Saw a very fresh Bombus agrorum queen [illegible] herself about near a [illegible] in back garden & a [illegible] - [illegible] ♀ Andrena albicans not long after.

18th April. After some rain at night & a cloudy early morning we had a mainly sunny day, with the usual cold & sometimes strong E. breeze. Spent most of the day clearing up by the burn, as yesterday, & had bonfire. Mr. Caldwell called in evening & gave me a cactus, or a succulent

19th April 1964.

Sunday. A dull cold day, with slight drip off & on all day with N. light cold damp breeze, after almost a white frost.

In forenoon I sowed 12 seeds of Cyclamen in seed tray; i.e. two rows, with 6 seeds to each row — 5/- worth from "[illegible]"!

In afternoon I had 1½ hours walk in plantation & later fed a few snails. Not glimpse of the sun all day!

20th April. After a nice sunny forenoon, but chilly in shade, E. breeze, we had a cloudy afternoon, wind still E., hill fog down to 1500 ft with drizzle between 5 & 6 P.M. Cut front lawn & spent rest of day clearing up side of wee burn in back garden or weeding. Had to remove sludge from upper reservoir in wuggy after tea.

21st Cold drizzle, with short glimpses of sun at intervals, all day, after heavy rain during the night; wind light, mainly SE. A very poor day & could do nothing in the garden. Davie sowed Sweet Peas in greenhouse in a tray & 9 paper-pots, also sowed the dwarf Dahlias.

22nd April. After another wet night we had a very nice soft sunny forenoon with light SW-W. breeze. A growing day! But wind went back to SE. for a time in late afternoon & it became very cold. There was a shower at 3 P.M. & after tea rain which had threatened for more than an hour came up from the west — like a thunderstorm — & we had rain from 8 P.M., but by now, again mild & no real wind.

In forenoon, with help of Mr Caldwell I removed my Killarney Fern (grown from 6" fragment of rhizome brought from Dingle Promontory in Sept. 1914) from the old to the new greenhouse, where it it was installed in the S.W. corner under the shelving & a cellophane screen put round it instead of its old "wardian case". In afternoon I top-dressed it with riddled soil, peat & leaf mould, as it had lost a lot of its soil in the move.

22/4/64, contd.

Mr Caldwell also helped me to put up the wire & poles for Sweet Peas along Anderson's garage & constructed an overflow from water butt at new greenhouse to the gully which takes the kitchen sink-waste.

In afternoon I rode my bike to call on Mr Livie & took him a seedling of Mrs. J. C. Beattie's Androsace from Norway. These seedlings, a few days ago suddenly sent up, each, a flowering spike, which are now about an inch in height. After tea I did an hour's work of "clearing up" in back garden. And so ended a good day's work!

23rd April. After some rain during night & early morning we had a very nice day from 10 A.M. onwards. In forenoon I did various jobs in garden & made preparation for cementing the slope at top end of the wee pond in the wuggy, where I dammed the wee trickle some years ago & after dinner I cemented half of the slope, while the stream was diverted to other side. I then cut back lawn before tea.

After tea I prepared to plant more shallots, when Mr Kendall came to look at the old greenhouse, which I am giving away, but had 1st promised to Davie Hanna, if he would remove it quickly, but had not heard from him since, so I promised to let Mr Kendall know tomorrow if he could have it. Later rang up Hanna but failed to find him at home.

24th April. After a dry night, we had a dry day, with quite hot sun, but the usual keen E. breeze. Again rang up Davie Hanna who, as he could not tackle the removal of the old greenhouse, agreed to give up the idea, & so I sent message with John Kendall, that his father could have it & might start dismantling it tomorrow if desired. Hence after breakfast I commenced to clear out the contents of it & completed this at 3 P.M., planting the clump of Beech Fern which had been growing under the beech near the Killarney Fern on N. slope of the place in top border of back garden next to Salix lanata (which is on S. slope facing Anderson's hedge.

This [illegible] fern came from "The [illegible] Rocks" on Slieve-na-maddy some 2 1/2 years ago, when Mr Caldwell & I were there.

Later I had bonfire & got all the rubbish burnt that was left in the old greenhouse & after tea I planted two more rows of shallots in triangular plot between the plastic frame & the cold frame. The onion sets & shallots in same plot planted earlier now showing good growth.

25th April. After more rain at night, we had SE wind all day, with light to heavy drizzle & sun all forenoon & until 4 P.M.: mild, with puffs of warm air till that time, much colder after drizzle stopped. In town during early forenoon! Mr Kendall & his son John arrived at 1.30 P.M. to take down the old greenhouse & left at 9.30 P.M., by which time the greenhouse was completely demolished & its pieces & glass removed to top of the drive ready to be carted away next week. The only part not removed was the concrete foundation & this I will cover over when making the site into "the central mound."

26th April. Sunday. After a mild & calm & dry night, we had a humid warm day with much sun in forenoon; with fog & light SW breeze or variable; cloudy in afternoon & a light drizzle commenced about tea time, then it got cooler & wind dropped. Very stiff after last two days' work, but did considerable weeding in [illegible] & front garden. In forenoon took about 10 photos in front & back garden in sun, but not bright at about 1/60 of a second exposure. A ♂ Small White Butterfly pointed out to me by Daisy in back garden, 1st.

27th April. After a cloudy, windy (S.), but dry night, rain threatened all day, but I managed to get front lawn cut before a light drizzle commencing, & gravel outside front gate scuffled. Intermittent drizzle or rain fell all

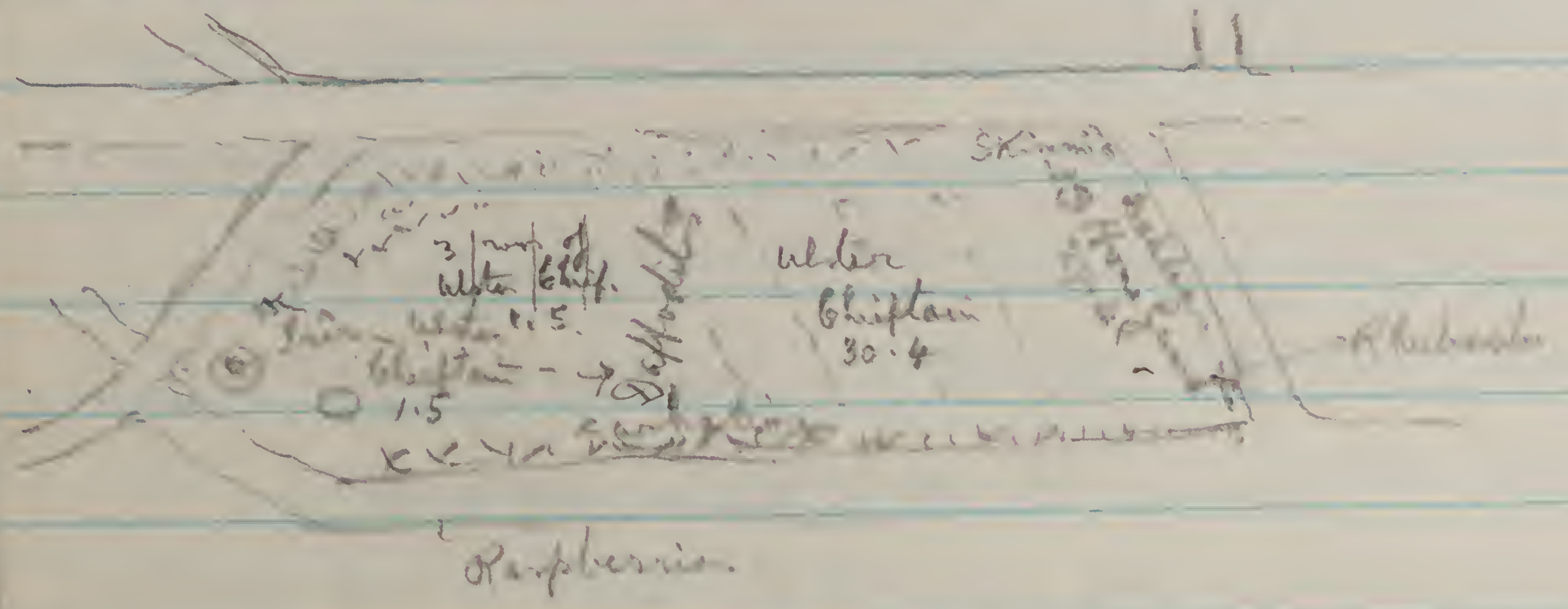
afternoon & S. wind increased in evening, but rain ceased. In forenoon the Lighting Engineering Works, Belfast, phoned to say they were ready to overhaul the electric mower & in evening Davie Hanna arrived with a cousin called Mercer to take it to Belfast where he will deliver it to the R.E.W. tomorrow morning. In afternoon I raked the rest of gravel outside front gate & picked up numerous plants & lumps of the lines of Cardamine [illegible] just about to flower or in seed. In path in back garden E. of old greenhouse site (to become the "central mound") I pricked out with penknife 70 seedlings of Sagina ('[illegible]') in [illegible] the 2 square foot of path. A [illegible] seen for 1st time this year, probably [illegible]!

28th April. A nice day with some hot sun in forenoon, after a similar night, but heavy shower at 4.30 P.M. & others later. Spent day digging up interior area of old greenhouse (the concrete foundation put in by Taggart being all in one piece, I have had to leave it!) & got two, of the intended three rows, of potatoes put in. That on S. side Kerr's Pink, centre Blues! As soil poor I put a barrow load of sludge from the burn beneath the Holly into bottom of each trench, then compost & a little soil & planted the potatoes on this & covered them up. Finally dug the site for 3rd row, which I will plant tomorrow, all being well. Saw another Small White Butterfly ♂ in garden about noon & pr. of Anderson's albino [illegible] playing about.

Bertie Hanna & 2 men arrived at 8.45 A.M. to paint outside of house, having contracted to do so last autumn!

29th April. A nice day with hot sun & showers (hail sometimes) & a rather strong SW wind with the showers, after a dry night. Painters (3 men) only did about 2 hours work in forenoon. I spent forenoon getting large quantity of "Sylglas" from old greenhouse burnt & then prepared trench for 3rd row of potatoes (Golden Wonder) inside site of same. In afternoon

29.4.'64, cont.
between showers I got the third, N., row of Golden Wonder planted. After tea I planted the first potatoes in main plot SW. above the Raspberries, as in sketch below. These were all



Home Guard: 13 in all of which the 3 bottom are cut from one large spud, the 4th is the second largest (not cut) & the remainder small spuds; that at top, next Skimmia, is above the "manured" part of the trench!
I also cut the grass in the [illegible] in the afternoon.

30th April. Another showery day with sunny intervals after a wet start, with strong & gusty W. wind. {♀♀ Bombus jonellus seen on flower of cordon pear! First ♀ of year!}
In forenoon I did odd jobs, but chiefly occupied keeping an eye on the two painter lads. Nevertheless got down the second row of potatoes in main plot, next E. of the Home Guard put in yesterday, & in evening I got in 3 more rows & so filled the plot as far E. as the row of Daffodils. All those put in today are Ulster Chieftain!
The afternoon was too showery to do any real work in garden.
Bombus jonellus ☿ seen on Salix arbuscula!

1st May, 1964. A very nice day & no showers after a very slight one at 9 AM.
Continued planting potatoes & in forenoon put in 3 vertical, short, rows & 1 longitudinal row of Ulster Chieftain at E. end of main plot, with 2 plants of Dutch Record at E end of long row, while at W. end of same were 5 cut, sprouted, pieces of a very large U.C. & in the next E. vertical row were 3 cut & sprouted pieces of another U.C.

1.5.1964, cont.
In afternoon I planted 4 rows of Dutch Record potatoes in upper plot next the Scottish Williams & between the two strawberry plots, the next E. row consisted of 3 cut & sprouted pieces of one large potato & I think one other spud, the [illegible] one being next [illegible].
Today our pair of tame Robins, after having a family (Cuckoo or Jackdaw?) decided to build a nest in the lower compartment of the nesting box I had hung up above the cordon pears on S. side of garage & about 8 ft. from the kitchen window some six or eight weeks ago & which they had steadily ignored hitherto: the entrance to their flat is at W. end of box: the smaller entrance (for Blue Tits?) at E. end of the box & several times we have seen one of the tits investigating it.
George came for tea & after seeing him off went to examine the bag of sand in front of garage, which contained sand left by Mr Whyte when new greenhouse was finished & found a nice ~~Chaffinch's~~ Robin's (as eggs [illegible] "box") nest with 5 eggs on top of sand: the bag had unfortunately been moved by the painters from where to the barn side of the drive a few days ago & we fear the birds had deserted the nest as garage door was open a couple of yards away & painters going in & out all week.
Saw Bombus jonellus ☿☿ several times during the day, which began very bright & windy (SW.), but ended cloudy & calm, as if rain was coming, as the forecast had warned us.

2nd May. After some rain at night, we had a warm, mainly cloudy, day, with variable wind (light to calm), but by 8 P.M. wind from S. was inclined to strengthen & slight drizzle occurs. In forenoon I transplanted from their pots seedlings from Norway sent me last Sept. or Aug. by Mrs. E. C. Beattie of Edinburgh. These I put in the lower angle of the △ plot between the plastic pond & the cold frame, i.e. N. of the Stable. Next the frame I put "The Fen Senecio" & next the pond the full pot of a "Composite" which to me looks like an Erigeron. The seedlings of "Androsace" in pot in greenhouse are now in flower: they have minute white flowers on stalks from 1/2 to 2 inches & therefore I think must be A. elongata, though

2.5.1964, cont.

they seem to agree much better with the figures of C. septentrionalis in in Lid's Flora of Norway, but this is described as 15 cm. in height, while C. elongata is only 5 cm. Can these measurements have been reversed by mistake? Also planted out next path in same space the Sempervivum & Sax. (crusted spp.) seedlings given me by Mr. Caldwell grown from R.H.S. seed. Afternoon I had once more to de-sprout the store of "Bolne" potatoes & must soon do same with the Golden Wonder, though these latter have not already been de-sprouted & have only short sprouts, even now. After tea I planted next to E. of the raspberries in lower plot one row of Kerr's Pink potatoes.

Heard a Cuckoo calling several times during afternoon from the direction of Drinnahilly!

3rd May. Sunday. After rain during early part of the night we had rather a squally day from SW. with numerous heavy showers & nice sunny intervals. In forenoon I did some weeding & in afternoon I had 1 3/4 hours walk round Drinnahilly, during which I did not hear yesterday's Cuckoo, but again saw the seedlings of Erodium maritimum on the forestry road at ca 700 ft., though only about six & not looking happy.

4th May. After a dry & very windy night (W) we had a lovely sunny forenoon but W. wind still strong, during which I got the second (E) row of Kerr's Pink potatoes planted E. of the raspberries. About 2.30 P.M. clouds appeared & at 3 P.M. we had a heavy shower, which lasted an hour or more & later other showers, but after tea I got a short row (W) of "Bolne" potatoes planted on W side of the raspberries.

5th May 1964.

After some rain during night, yielded a fairly fine & sunny day with fresh SW. wind & some showers in afternoon, but the forenoon dry & sunny, during which time I got front lawn cut by hand machine, as the electric mower not yet back from Belfast.

Afternoon I dug up dandelions & docks in front lawn & trimmed the grass along its edges. Heavy rain came on at 7 P.M.

Saw one of Swallow tribe during dinner over Slieve Cook Park — probably a House Martin — as the somewhat doubtful birds had been seen in previous couple of days, but too far off to be quite sure of. Saw first Speckled Wood Butterfly in back garden!

6th May. A nice day, but garden very wet after more rain during the night. Warm hot sun at times, but mainly cloudy with variable wind, but quite cold E. wind in evening. [illegible]!

Spent forenoon weeding & afternoon getting the smaller branches of the two Salix cinerea burnt, which fell in winter one & two years ago respectively & have been lying there ever since. In evening, after posting letters I crossed the road to have a few words with Mr Caldwell & while going round his garden saw Swifts flying overhead.

7th May. After a drizzle most of the night, we had a cloudy forenoon though much better for it, but it was warm & humid, with E. wind.

I spent most of the forenoon getting the Equisetum variegatum out of the second "pool" on the lower path, where it had overspread & nearly killed out the Carex grahamii. This was from [illegible] in 1958, i.e. [illegible] N. of Kabul.

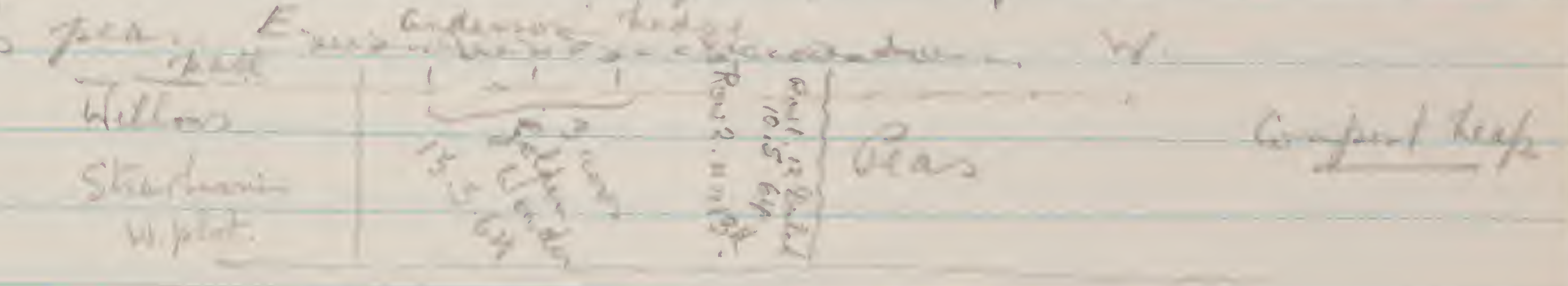
In afternoon I replanted bits of the sedge in the pool once more & dug a hole in wasteground & put the Equisetum & the bit of the sedge into it by the trickle where it comes into our garden from Anderson's. I already have a bit of the Equisetum in "Transjordania" where Mrs. McCallum's & Kirkham's gardens meet.

7.5.1964, cont.
Later I spent some time clearing up the part of rockery which had been encumbered by the fallen branches of the willows. During tea a violent gale from S. developed, with cold & heavy rain, & while the rain passed early in evening, the gale continued till bed time, with mist on some windows. Took 3 photos: 1 in front & 2 in back garden from staircase window & outside sitting room window.

8th May. After a wild, but mainly dry, night, we had quite a nice day & strong S. wind gradually fell till almost calm at 9 P.M. Painters did not turn up yesterday at all, but arrived today just in time for "elevenses" about 10 A.M. They hope to finish on Monday morning. Spent forenoon cutting up willow branches in rockery & general weeding. In afternoon had small bonfire & then & after tea put in 1 1/2 rows of "Arran" in plot W. of raspberries.

9th May. After a dry night, we had a cloudy, windy (SW) forenoon, with rain promised later with S gale, but the rain did not come on until nearly 4 P.M. I was at bank in early forenoon & spent rest of time till dinner weeding. After dinner I scattered potato fertiliser over the rows of all recently planted spuds, none of which have pushed through the ground so far. The painters turned up today more punctually & finished the painting, & removed all their material but the ladder.
At about three o'clock E. M. Carrothers turned up with his sister, Mrs Boyd, her husband, who teaches in Lisburn, & their two girls & one boy. They had half an hour in garden before being driven into the greenhouse by the rain, & later came into the house to be shown some of my insects & left in car about 4.30 P.M. Wind dropped & rain belt passed on about 6.30 P.M. & we had a calm & dry evening, till a deluge occurred about 11 P.M. & with it a wind arose.

10th May '64, Sunday.
A windy night, but whether more rain fell after the "deluge" at 11 P.M. I don't know, as we awoke to a fine sunny morning & sun shone till 3 P.M. with wind moderating. Rain came on at 4 P.M. & then cleared for half an hour during which period I got a row of 12 Dutch Record potatoes planted in upper plot & most W. row of the plot W. of the strawberries & next Daisy's peas.



In forenoon I cleaned up inside & outside greenhouse the mess left by the painters! I also took more photos & finished roll of 20 & posted same to Kodak.

11th May. A warm, mainly cloudy day, very damp with fine drizzle blowing in the wind nearly all day, but not wetting anything; dense low fog over the higher ground. Spent most of forenoon getting together a box of plants for Daisy's sister in law Nellie Mitchell. The guide wires for the blinds, & 10 gravel trays for the greenhouse arrived by parcel post. In afternoon Mr [illegible] came to put up the blinds & guide wires in greenhouse & we found it necessary to change our plans, which delayed the job & it was 5 P.M. before we got the first wood bracket in position to take the blinds' rollers. George arrived at 5.30 for tea & after tea he & I drove to [illegible] & lifted a large section of a conifer I had [illegible] some months ago for fire wood & also about 10 rocks for the garden. In forenoon I took several photos on new roll of 20 Kodachrome II: two of front borders & one of Robin's nest on top of a bag of sand, with five eggs, which was deserted after painters moved the bag during their operations. Only after the day we moved this did we discover the nest. We go to Donaghadee tomorrow on a week's visit to my niece Jennie Lee, calling for an hour on way at Daisy's brother the Rev. A. D. [illegible], now retired & living at [illegible], near [illegible].

14/ 12th May 1964

After a dry night, we set out in taxi for Lisburn & Drumaghadone at 10 AM & just as a heavy drizzle started with cold very strong S-SE wind. This continued until after we left Lisburn about noon, but a change of wind to SW soon cleared away the drizzle & by the time we got to Jennie's at Drumaghadone the sun was out & we had a very pleasant sunny afternoon. Left Drumaghadone at 4·30 & home at 6 P.M.

Took one photo of Jennie's blue Cineraria in greenhouse in good, but not sunny, light at about 25 per second exposure.

13th May. Spent morning helping Mr. Caldwell to put up 2 new blinds in greenhouse (roof), in afternoon finished cutting front lawn & back lawn with the old push-mower, as we were waiting the battery motor not back from Belfast. After tea planted 2nd row of Dutch Record potatoes in upper plot. A fine forenoon after a dry night but several showers from 3·30 onward.

14th May. A very nice sunny day! Windy at first, after a windy night (SW-W), but wind dropped to calm in afternoon. Frost forecast for most parts of Ulster, but to me not so like it as yesterday evening & cloudy at 10 P.M. Spent forenoon getting plants I had procured [illegible] Jennie's at Drumaghadone on Tuesday & potted them in afternoon, then weeded till tea time. After tea I covered those potatoes which were above ground in case of frost, by moulding them up.

15th May. A very bright sunny day, with the usual cold E. wind which we have on most days, after a dim cloudy night. Spent forenoon clearing stones & weeding same, which had accumulated at various spots in back garden. In afternoon I raked the onions & shallots & in evening I planted

15.5.64 cont. 15

the last 3 rows of potatoes (all Golden Wonder) in top border next to the strawberry W. patch. Finished at 8·20 P.M. In forenoon in bright sun I took 3 photos of back garden from house gable, an exposure of 1/30 for first 2 & ca. 1/50 for third. Then one outside at 1/30th & after dinner 2 of Dryas & Silene acaulis in rockery at 1/30th. Got back from Kodak this morning the film roll posted on 10th May.

16th May. Another fine sunny & dry day, as yesterday, with cool onshore E breeze in afternoon, dying away in evening. Started in forenoon to clean up the Daphne blagayana patch at E side of rockery mound (the site of old greenhouse) but interrupted about noon by Mr. & Mrs. Edgar & friends arriving to see garden. After dinner sprayed the Ranunculus repens, etc. in front lawn with 4-50 selective weed-killer & later put manure & did various jobs in back garden. Found a Vespa rufa ♀ in perfect condition lying dead on path in back garden. Many bee burrows on edges of paths also.

17th May. Sunday. Another sunny day, with cool E breeze like the last two. Garden now very dry & caked on surface, except where scuffled. Fed animals & did odd jobs, weeding, etc. In evening I swept in garden for first time this year, between 7·30 & 8·0 P.M. & took the following insects:—

Along the wee burn & in sedges, off Salix, etc., in back garden

21 Tullybrannigan Rd., Newcastle, Co. Down. [illegible] 6.2.35.

Phygadeuontid ♂ small, red abd.: not ntd.

Baeus annulatus ♂. Proctotrupes [illegible] ♂. Homocidus longiventris ♂: now ntd.

[illegible] ♀ [illegible] ? = Phradis exareolatum Thoms. (non auctt.) ♂, ent. 18

Campoplegid ♂. Angitia?: not ntd.

Sawflies: 3 now ntd. Empria [illegible] ♂. Pontania ♀. [illegible] off Salix

17.5.1964, cont. Insects, from back garden, cont.

Bracon colpophorus? ♀, short 3rd cubital areolet! Ant. 29.

Earinus {delusor or ? / tuberculatus? 2 ♂♂ {These look same sp. to me but these ok'd, or if so given as each rosae & that with black red coxa (see fig b'), while the former has notably prominent spiracles on tergite 1; ant. 34 & 35 respectively! AWS. 196

Meteorus deceptor? ♀ = this is either a small dark var. of deceptor or an allied form.

Opius of hyper ♂, not ok'd.

Phaenocarpa conspurcator ♀, not ok'd

Aspilota sp. ♀; none ok'd.

Dacnusa spp. only ♂; 2 ok'd. D. semirugosa ♂, ant. 34. D. evadne ♂ ant. 30.

& D. areolaris ♀; not ok'd.

Aphidius ♂ not ok'd

Proctos. (& 4 Platygaster) only 2 ok'd = Exallonyx microcerus ♀.

& Aclista filicornis ♂; belong but since "on long" to radii, pair as ♀ named by Nixon!

Chalcids & a probably off Salix: none ok'd

Cynipids &: none ok'd

17th May

18th May. Two thunderstorms! one at 5 & the other 7 A.M. Then a dry forenoon, with SE light breeze & smoke haze on hills, but in early afternoon wind freshened & veered SW. & haze cleared at once. Rain came on at 3.30 P.M. just as Miss Kestland, with Mr & Mrs Breen Gunning (Mrs Breen formerly Marion Forsyth!) arrived to see garden. They left at 6 P.M. Spent forenoon at Blagayana patch & got most finished path cleared up. Otherwise did nothing in garden. Davie Hanna arrived at 4 P.M. with the electric mowing-machine which had been in Belfast with Rugby Engineering Co. for overhaul since 27th April.

19th May 1964.

A fine sunny forenoon, after a dry night, but afternoon showery & one shower between 3 & 4 P.M. prolonged & very heavy at times.

Spent forenoon hoeing & generally cleaning up "fire break" along foot of Anderson's hedge in front garden & the front border, but could not get stones, etc, off former & riddled, as those along front wall too wet to riddle.

20th May. After a fine night with very heavy dew (almost a white frost at 5 A.M.) sky clouded over by 7 A.M. & we had a warm very humid morning, but a fall in temperature brought on a slight chill which persisted all day, as temperature varied from moist-warm to chilly. Nevertheless in forenoon I got the stones riddled in front border & front lawn cut with electric mower before afternoon tea. Soon after Mr Kelsall, of Drumahill Park, arrived to know what the insect was which hovers in front of flowers in his garden & probed them with a long proboscis & whose wings moved so quickly one could not see them distinctly. As it was obviously a Humming-bird Hawk-moth, I got a specimen & showed it to him, & he agreed it would be what he & his wife had seen several times lately in their garden. He spent some time looking round the garden & it was 5.45 before he left with some plants I gave him.

After tea I dug in the bonfire ashes where Sweet Peas are to go next Anderson's garage & fixed up the wire netting to support it, hedge, very annoying & gave up work at 8 P.M.

Mr Caldwell came about 11 A.M. & put up the 3rd sunblind in greenhouse, while I put up the side curtains which Daisy had made.

17 21st May 1964
On the whole a good day after a dry night, calm or light SE breeze, but a slight drizzle occurred off & on in middle portion of the day. About 10 A.M. I began by doing some scuffling in front garden along the drive. Then I reorganized the greenhouse till lunch time. Later I had bonfire & cut paths in [illegible] & after tea I did various jobs in back garden, moulded up the 3rd rows of potatoes in central [illegible] & finally cut back lawn, ending at 9.10 P.M.

22nd May A very fine & warm day after a fine night, but very sultry & calm in mid afternoon, otherwise a gentle cool & variable breeze, falling calm in evening. Again began with scuffling in the front drive & then put in the patch of concrete or "waterfall" into the boggy pond, which took up till 1 P.M. At 2.30 I took my net & went up the Greenhill's rough for an hour along the middle road & around the old sand pit N of the greenhill, where the Epilobium pedunculare is growing.
After tea I did weeding in back garden, fed some [illegible], & puffed "Derris Dust" into clumps of Carex where some insect has been nipping the flower stems just above ground level.
Took the following insects on the middle road of
Drinnahilly, Newcastle, Co. Down, between 3 & 4 P.M. [15 labelled on 17.1.1965
Culicoid 2 minute ♂♂
Tenthredinid minute small dark ♂
Nematinae 3 ♀♀; 1 kept = Pristiphora [illegible] ♀.
Phygadeuonid 3 ♂♂; not std
Adelognathus dorsalis ♂, ant 14.

22.5.64, cont Drinnahilly, Newcastle, Co. D.O. cont 18.
Promethes [illegible]
Stenomacrus [illegible] ♀, compressed abd. ant 25. {but from small face would run to [illegible] in Schmied. AWS. 1965.
Tryphon signator ♂, ant. 32; yellow patch on face united!
Ctenisca ♂ not kept
Anisotoma tenellus ♀, ant. 29.
Bracon cf. epitriptus var. 6: ♀, ant. only 28, legs rather dark & no spot on tergite 2
sp.? Exothecid ♂, small ca 2.0 mm, huge black stigma [illegible] black legs, ant 25 [illegible] but cf. [illegible] sp. 5 ♀ taken in [illegible] (2) 16.6.1960. AWS. 27.1.1965! = nigricornis sp. n. in my key
Euphorus cf. pallipes 3; 1 kept ♂, ant. 25.
E. flavicornis Ruthe, ♀, ant. 23.
Leiophron edentatus 2 ♀♀, ant. 25 & 26.
Aspilota spp 3; not std

Dacnusa spp. only 3 = D. [illegible] 2 dark legged ♂♂, ant. 36 & 37.
D. aphanta, ♀, ant 25, with very dark streaks on mid & hind femora.
Aphidiids in [illegible] & mainly Monoctonus cerasi of the [illegible]; not std
Proctos about 6; none std.

Chalcids 3 or 4; none std.
Cynipids 1 or 2, not std.
Diptera: large black winged: Bibio marci?

19. 24th May 1964. Sunday.

After a red sun at sunset yesterday evening we had, as always, a perfect & very warm summer's day, as we always had in the 1880s on this Queen Victoria's birthday, when there was a review of troops stationed in Belfast district in the Ormeau Park, almost in front of my father's house, "Oakleigh", where I was born on 15th December 1882.

There was scarcely a cloud in the sky & only a light & variable breeze — mostly N or NE, sometimes E, & at 8.30 PM it was west.

In forenoon I had two hours' shade in the plantation on lower slope of [illegible] & during this period I caught two ichns. with my hand. These proved to be a ♂ Campoplegid (probably Angitia sp.) & a ♂ Cryptid with long slender petiole [illegible] No!

In late afternoon I cut away hedge where I get water from the wee burn for the garden & after tea did some weeding & turned the water of the trickle in the [illegible] into the central channel where I excavated the "waterfall" yesterday, by blocking that at N. side where it flowed yesterday; tomorrow I hope to put concrete on the bottom & so complete the work. Sunset again disappeared tonight, but some light up[illegible] in sky from [illegible]!

In late afternoon I caught the following insects on shrubs along the wee burn in back garden of

21 Tullybrannigan Rd., Newcastle, Co. Down:—

Empria [illegible] ♀, probably off Spiraea ulmaria!

[illegible] sp. 3 ♂♂, ant. 22, 22 & 23.

Promethes cognatus ♂, ant. 24.

[illegible] subopaca ♂, ant. 22. H. pallipes ♂, ant. 23.

[illegible] ? ♂

[illegible] ♀ — [illegible]

25th May 1964. Similar to yesterday: all sunny, very little breeze (N or NE) & very warm. Spent forenoon concreting the N side of the "waterfall" in the trickle in the [illegible], but had trouble with the water seeping through the temporary mud dam above the fall. Hope I got this stopped in the end. Then cut the front lawn & got it finished before tea & the back lawn after tea. Finally did some hoeing, raking, &c.

20.

26th May. Another very hot all sunny day. Moulded up all the potatoes, riddled the various piles of stones in front garden & did various tidying jobs to get ready for the visit to Newcastle of our friends Mr & Mrs Garrick, from [illegible], Glasgow, tomorrow evening. Sunset yellow & looking like a change in the weather.

27th More cloudy, but no real change from the last few days; sun very hot when out, but the same cool E breeze all day. Trimmed edge of back lawn in front of the cordons & then started planting out Craig's Sweet Peas from box in cold frame to the prepared position parallel to Anderson's garage, which job I did not finish till after 4 P.M. Then made bonfire, had tea, & at 6.30 I walked to bus station to meet Mr & Mrs Garrick who had travelled from Glasgow via Stranraer & Larne, where Finlay's taxi also met me & drove them to Mrs McNeill's guest house. After a meal they came up to spend the evening with us & have preliminary look around the garden.

28th May. After some very slight rain during the night, we had a dry day with thick mist & hill fog till late afternoon, when it began to brighten & sun eventually came out at [illegible] P.M. Mr & Mrs Garrick with us most of day, except for [illegible] in forenoon they & I had a walk along front & then up the glen drive to Donard Lodge ruins & home.

— See note on p. 16 antea under 2nd May. AWS.

Mr Kelsall reported that he & his wife had seen a Humming Bird Hawk moth during previous week in their garden on two occasions.

21 29th May 1964.

After a cloudy & dry night, misty drizzle & rain came with SE wind & thick hill fog at 8 AM & lasted till dinner time, but weather cleared at 2 P.M. & we had a brilliant & very warm sunny afternoon & evening. Nothing doing in forenoon, but Finlay called at 2 P.M. & we picked up Mr & Mrs Garrick at Mr Smith's & then drove on to Bryansford, from where we walked to Spinkwee River & up it & then home via S side of The Drinns. Home at 5.20 P.M. No parasite seen at the [illegible] – [illegible] [illegible] & nothing of interest to report

30th May. Another very warm day & all sunny till about 3.30 P.M., when haze came in from E & covered the hills, but fine again later. Mr Finlay's brother called for me at 10 AM & we picked up Mr & Mrs Garrick & then drove via Hilltown to Newry & thence via Warrenpoint to Rostrevor, where we arrived at noon & walked up through the wood to Cloghmore & had lunch at 1 P.M. Coming back to car at 2.10 we then drove on to Greencastle arriving at 3.0, where we left at 3.30 & home at 4.20 P.M. I took several photos on way up to Cloghmore & at Greencastle

31st May 1964 Sunday. After a dry misty night, a drizzle started about 9 AM & continued, with NE light wind, until after midday, sometimes heavier, sometimes lighter. Mr & Mrs Garrick arrived about 3 P.M. & they & I had 1½ hours walk in the Drinnahilly plantation, to see the site for Pinguicula lusitanica above the old shepherd's cottage, where we found P. vulgaris in flower, but no sign of flowers on lusitanica. During day the wind became colder & colder! Took a large Daddy-Longlegs in bathroom in evening =

1st June 1964. (22)

Very cold & dry, with bitter NNE wind (frost forecast for all districts of Scotland, with snow on high ground in N.) In forenoon the Garricks & I had an hour's walk in plantation & at 1.45 we set out for Rowallane garden, Saintfield, in Finlay's taxi, which we reached in an hour & left at 4.15 – home via Downpatrick at 5.20. On the outward journey we went by Ballynahinch. Though some of the early Azaleas & Rhodos. were over or past their best the show at Rowallane was still marvellous, & I took a number of photos at exposures of 1/50th to 1/30th of a second in weak sunshine. [These photos all came out well! AWS]

2nd June. In forenoon I & Mr & Mrs Garrick spent 1½ hours in the Drinnahilly plantation & at 1.45 set out for Belfast Waterworks in the Silent Valley & leaving there about 3 P.M. came home via the Spelga Dam, [illegible] & Bryansford. The day was very cold, with NE wind but sunny at noon & until we got to the Silent Valley, then clouds gathered over the Mournes & we passed through a fine [illegible] [illegible] on our way home, due to conflicting NE & SE winds.

Dug up a burnt plant of Veronica serpyllifolia var. humifusum from Ben Lawers to avoid seeding.

3rd June. After some rain about midnight, we had a cold, sunny day, with light E breeze (later SE) & [illegible] [illegible] till evening. In forenoon we spent about 2 hours in Slieve Donard nursery & in afternoon we were driven to Trassey Valley & walked up to the ford at 1,000 ft. below the Hare's Gap & then back to car at 5 P.M. I brought home plant of a rather deep pink & a very pure white form of Polygala serpyllifolia to grow in garden, also a piece of a Hepatic for Mr Fitzgerald, which formed dense cushions [illegible] [illegible] [illegible] boulders of Trassey River, at the ford, N. of Hare's Gap, at c. 1,000 feet. = Marsupella (Alicularia) compressa, fide Fitzgerald

4th June 1964

First Rosa canina flower open in back garden by the wee burn.

After a much milder night with heavy rain from SE we had drizzle till about 8 AM & then a fine sunny day with strong gusty SE wind except for one shower about 9 PM. Spent day in back garden & also cut grass in nursery. R.S. Fitter & his wife, who had been attending a Conference on bird protection in Slieve Donard Hotel, came at 5.30 in afternoon to see the garden & left at 6.45. They are to call tomorrow at 9.30 AM & we will go to Glasdrumman to see if Mertensia is still there. Formerly abundant there, the plant was almost exterminated by the easterly gales of last year moving the shingle beach on which it grew & we could only find two small plants about half a mile S. of Glasdrumman Port last autumn.

5th June. A very beautiful warm & sunny day in spite of a rather poor forecast & the only shower which fell here was at 6.30 P.M. & did not last long. Called for at 9.30 a.m. by Mr & Mrs Fitter, with the Swiss representative to the bird conference, & I went with them to Glasdrumman & we found 2 plants of Mertensia just north of the Port & quite a few, 10 or 12, ½ a mile further S. in the usual place, one of which was two feet across & already in flower. We also saw one nice plant of Glaucium luteum, which we had not seen here for several years. Fitter confirmed my identification of Allium triquetrum on bank of the stream which comes through garden of "Glasdrummond Lodge" & urged me to record it. We also saw a very nice Painted Lady Butterfly & the grass Koeleria gracilis & noted that the spray carried by recent SE gale had completely blackened all the nettles, brambles, one side of a Rosa cf. tomentosa, & two large clumps of Oenanthe crocata, while plants of Rosa spinosissima & most other plants were untouched.

5. 6. 1964 cont.

On the beach at Glasdrumman Mrs Fitter picked up a large stone bored by a Pholas out of one of the holes of which ran a small [illegible] which I caught & bottled: it proved to be a ♀ [illegible] [illegible], ad. 20.

6th June 1964. After a wet night rain continued all day with light SE breezes & often very heavy. In other words a typical "Soft-day".

7th June. Sunday. A very nice day after a little rain at night, with fresh W wind & much very hot sun. No showers here! Planted 10 Kerr's Pink, nicely sprouted, potatoes just W. of the raspberries (where 'Brussels Sprouts' were) to complete planting of potatoes for the year. Otherwise did some weeding in back garden & took a second photo of Linnaea borealis, completed roll of 20 Kodachrome II with photo of Mrs McIlroy's pink geranium which Mr & Mrs Garrick named G. subcaulescens! The large robust pink geranium from the wall top at Burrenwood was identified by Mrs Fitter as G. macrorrhizum which she confirmed by smelling the crushed leaves.

8th June. Another mainly sunny & dry day, with light SW wind after a dry night. Started to clean up the rock garden by removing plants gone out of flower & some which were crowding their neighbours & spent most of day at this job. After tea had a bonfire. Mr Caldwell came about 8 PM put a "stop" to hold door (inner) to prevent it banging against the new "fridge" in hall & the guide screw to the third sun blind in greenhouse.

9th June. After a dry night we had a mainly wet forenoon with squally S. wind & a showery afternoon. All I could do in forenoon was cut up sticks; in afternoon I went to visit Mr Livesey & in evening I planted out the Viola lutea Mr Garrick had brought me from Scotland in the place where the clump of V. cornuta, which I gave him, had been growing. One fragment of the latter remained in the soil & I replanted it beside the yellow, which flowered in last week in July but flowers no bigger than arvensis!

10th June 1964.

A bright sunny morning & forenoon, very hot sun & humid air, with S–SW wind; heavy showers at intervals all afternoon. Cut most of front lawn between showers, but "charger" not working properly, so battery weak & gave up later. Otherwise spent time putting up around strawberry enclosure & weeding.

11th June. After very heavy rain in early hours of the morning, we had a bright dry day with light SW. breeze & much very hot sun. Spent forenoon trimming long grass &c along sides of path in wuggy & got about half done (with sickle!). In afternoon did weeding & had bonfire. Took three photos in back garden on new 20 exposure Kodachrome II including two of the marsh orchid — O. purpurella — & offspring.

At closing time I caught an Ichneumon (Pimpla of concours Kried. ♀ ant. 30.) & a Dipteron ( ) inside the lean-to greenhouse — the former the first of the Parasitica I have seen in it.

12th June. After some rain during the night & cold SE wind at first during forenoon, we had a calm, warm, & somewhat sultry & cloudy afternoon with the sun only just showing through cloud. Midges very bad today & last two days! Spent most of the morning at Mr Caldwell's & in greenhouse in early afternoon. Cut remaining part of front lawn & back lawn by hand, as battery of electric mower given up earlier in the week. After tea had another bonfire & got what was left from last evening burnt. On leaving garden at 8.30 P.M. I nearly walked on a dark brownish frog beside the plastic pond, in which I believe a bit of the Frogbit put in last year from Fermanagh (per Marion Forsyth — now Mrs Brian Gunning!) has just come to the surface.

No, a seedling Alisma plantago! but ? how it got there?

13th June 1964.

A sunny & hot forenoon, after some rain at night & spent it trimming margin of path in wuggy & got most done. Afternoon & evening showery & got little done. In evening Mr & Mrs Caldwell & Mr & Mrs Blair came to see transparencies of Rowallane & our own garden. Colder in evening.

14th June. Sunday!

After a dry night we had a nice forenoon, but not much sun & a few short whiffs of light rain from west, during which I walked through the wood, up path by Tullybrannigan Burn, round E. end of Drinnahilly & home at 12.40 noon. [illegible] with [illegible] that [illegible] [illegible] about the old shepherd's cottage showed no sign of flowering, although many Pinguicula were over. At the highest point of road I counted at least 12 seedlings of Erodium cicutarium, of which 3 bore flowers, where the original plant grew last year. The exact spot is in line with the W. margin of the W "tie-bye" & on S. margin of the road — i.e. the forestry road made 4 or 5 years ago! The afternoon & evening were very showery, with one particularly heavy about 5.30 – 6.0 P.M.

Wrote Mr Garrick & posted the transparencies to him which I took while he & his wife were in Newcastle from 27th May till 4th June.

Also fed [illegible] before tea.

15th June. A nice dry day after a dry & very windy night. Wind W. & very gusty & strong. Posted Mrs Glenda Walsh Pinguicula to Liverpool University. Then did some weeding. After dinner spent afternoon hoeing, bonfire & weeding. After tea cut most of grass in wuggy. Leaving saw the dark frog by the pond!

16th June. A mild to warm mainly cloudy day, occasionally with faint [illegible] [illegible], in the light SW–W breeze. Bonfire still on this morning & so kept it going all day & got burnt the Hieracia & Geranium which were about to seed. Mr & Mrs C. B. Collingwood arrived at 2 P.M. & left for south at 7.30 P.M. He & [illegible] [illegible], checking my cut grass

27. 16.6.1964, cont.

in the moss & amongst the stalkings were the following land mollusca: Helix nemoralis, H. hispida, H. rufescens, H. rotundata, Cochlicopa lubrica, Clausilia bidentata, Pupa anglica (frequent), Vertigo pygmaea (1) & Hyalinia contracta (1), as well as five virgin Hymenoptera :- Charmodon apterus ♂, ant. 22. Panerema inops ♀, ant. 23. Aphelinus subrimatus? ♀, ant. 17. Pezomachus fl...? ♀, ant. 25, & Aphidium ♀, ant. 16.

Today I received a reprint from Dr K. H. Rechinger, of Vienna Museum, containing his description of Salix hibernica (formerly recorded from the Benbulbin district by Irish botanists as S. phylicifolia, but quite unlike the plant which occurs in Scotland & regarded there as phylicifolia).

I have two series of ♀ plants of this S. hibernica growing in the garden: (1) from cliffs S. of the outlet of L. Melvin, Co. Leitrim, coll. at my request by Mr R. C. Faris & (2) from cliffs of Ben Bulben grown from a slip taken by myself, when with late Mr Dallas in

17th June. A dry, dull day, after some rain during night.

Mrs Nora Fisher McMillan arrived in Newcastle & spent most of the day here between meals. Philip Wood called in afternoon on the eve of setting out with a party to the Taurus Mts., in Turkey in Asia; & a Mr Armstrong of Horticultural or Agricultural Dept. came with specimens of Angelica & Oenanthe crocata for me to identify — sent in by some farmer who feared they might be dangerous. Only a little weeding in garden possible.

18th June. Another mainly cloudy day, but all sunny after tea: wind light & variable in forenoon, NW & moderate later. No showers. Did little in garden, because of N.F.McM. In forenoon a Mr & Mrs Davidson, staying at No. 1, came to see the garden. Watered primulas on S. side of drive with "Tintex".

See Census sheet with that
of insects taken from "hay"
in buggy.

19th June 1964. 28.

A very dry hard & cold day, with very bright & hot sun, & strong NW wind, dropping only about 9 P.M. Snow reported down to 2,000 feet on Ben Nevis & Cairngorms in Scotland & snow showers forecast for Scotland tomorrow & as far south as the Pennines in N. England.

Cut both front & back lawns, after having to get the battery purchased
Cut w
pruning & eventually
had b
gy burnt after tea.
Mrs
for Glasgow this
evening
or Islay & back
mail
I
, Dublin) on the problem
concern
newly described
Salix
cliffs (Ben Bulben, &c).
I have
for Derry & Antrim
& Hart
to be the real
Salix
resemble those in Ulster
the
20th Ju
dry windy (NW) night
but m
sunny period in afternoon
a few
dropping in evening.
Still
Scotland to Channel coast
along
cold wall in forenoon
I can't
After dinner & after
tea till
, &c., in transforming
plot
stems of ivy on the
N. side
side of boundary &
which job I have long funked, but it is done & I still alive.

"Sandford,"
Adelaide Road,
Glenageary,
Co. Dublin.
TELEPHONE 805087.

28.vii.65

Dear Stelfox,

Thank you very much for the interesting information about the Templetons, father and son. I am passing this on to Fletcher who will, I am sure, be very glad to receive it. In the meantime, Miss Roche is continuing her search for any reference to Cleogene, and I have asked her to look up the annotated list by Coulter.

Thank you also for the two specimens of Pterophidae which I am delighted to have. They are Amblyptilia acanthodactyla, Hübn., of which I had only one specimen, obtained locally. I see that its foodplants include Heather!

I have noted the Humming-bird records.

Yours sincerely,

E. S. A. Baynes.

"Sandford,"
Adelaide Road,
Glenageary,
Co. Dublin.

TELEPHONE 805087.

28.vii.65

Dear Stelfox,

Thank you very much for the interesting information about the Templetons, father and son. I am passing this on to Fletcher who will, I am sure, be very glad to receive it. In the meantime, Miss Roche is continuing her search for any reference to *Cleogene*, and I have asked her to look up the annotated list by Coulter.

Thank you also for the two specimens of *Pterophidae* which I am delighted to have. They are *Amblyptilia acanthodactyla*, Hübn. of which I had only one specimen, obtained locally. I see that its foodplants include Heather!

I have noted the Humming-bird records.

Yours sincerely,

E. S. A. Baynes.

18th June 1964. Taken out of "hay" drying in the wriggy by shaking over sheet !— [p. 27]

Beetle with very ornamented front tibiae, which are covered with spikes =

Pezomachus ? ♂, ant. 23 =

P. flavipes ? 2 ♀♀, ant. 19 & 20.

Pimpla contemplator ♀, ant. 29: ant. segs. 8, 9, 10, are short.

Stenomacrus arcuatum n.? ♀, ant. 24.

Chalcid, which on being re-mounted turned over on its back on the gum =

Members are asked to bring at
exhibit should be furnished w
exhibitor.

Members are reminded that sub

16-6-1964, cont.

in the mossy & amongst the shakings were the following land molluscs:– Helix nemoralis, H. hispida, H. rufescens, H. rotundata, Cochlicopa lubrica, Clausilia bidentata, Pupa anglica (frequent!), Vertigo pygmaea (1) & Hyalinia contracta (2), as well as five wingless Hymenoptera:– Chasmodon apterum ♂, ant. 22. Panerema inops ♀, ant. 23. Aplesia subimatus? ♀, ant. 17. Pezomachus flavipes? ♀, ant. 20., & Aphidium ♀, ant. 16.

Today I received a reprint from Dr K. H. Rechinger, of Vienna Museum, containing his description of Salix hibernica (formerly recorded from the Benbulbin district by Irish botanists as S. phylicifolia but quite unlike the plant which occurs in Scotland & regarded there as phylicifolia).

I have two series of ♀ plants of this S. hibernica growing in the garden: (1) from cliffs S. of the outlet of L. Melvin, Co. Leitrim, coll. at my request by Mr R. C. Faris & (2) from cliffs of Ben Bulben grown from a slip taken by myself, when with late Mr Dalby in

17th June. A dry, dull day, after some rain during night.

Mrs Nora Fisher McMillan arrived in Newcastle & spent most of the day here between meals. Philip Wood called in evening on the eve of setting out with a party to the Taurus Mts. in Turkey in Asia; & a Mr Armstrong of Horticultural or Agricultural Dept came with specimens of Angelica & Oenanthe crocata for me to identify – sent in by some farmer who feared they might be dangerous. Only a little weeding in garden possible.

18th June. Another mainly cloudy day, but all sunny after tea: wind light & variable in forenoon, NW & moderate later. No showers. Did little in garden, because of N.F.McM. In forenoon a Mr & Mrs Davidson, staying at No. 1 came to see the garden. Watered pansies on S. side of drive with "Tritox".

See loose sheet with list of insects taken from "bag" in mossy.

19th June 1964.

A very dry harsh & cold day, with very bright & hot sun, & strong NW wind, dropping only about 9 P.M. Snow reported ~~above~~ down to 2,000 feet on Ben Nevis & Cairngorms in Scotland & snow showers forecast for Scotland tomorrow & as far south as the Pennines in N England.

Cut both front & back lawns, after having to get the battery purchased last week replaced by another one. Later did some pruning & eventually had bonfire & got nearly all the trimmings from mossy burnt after tea.

Mrs N. F. McMillan here in afternoon & left for Glasgow this evening en route to join a botanical party on Islay & hunt snails on the island.

In evening I wrote Miss Scannell (Nat. Mus., Dublin) on the problem concerning Salix phylicifolia in Ireland & the newly described Salix hibernica Rechinger from Sligo & Leitrim cliffs (Ben Bulben, &c). Have suggested to her that David Moore's records for Derry & Antrim & Hart's for Donegal will most probably be found to be the real Salix phylicifolia as their habitats seem more to resemble those in which this willow grows in Perthshire!

20th June. More or less like yesterday after a dry windy (NW) night, but not so cold & not so harsh, with cloudy period in afternoon, a few slight whiffs of drizzle in forenoon & wind dropping in evening. Still frost warning in Gt Britain from S. of Scotland to Channel coast along E. half of England. After seeing Mr Caldwell in forenoon I cut paths in mossy with mowing machine. After dinner & after tea till 7.30 P.M. I hacked my way through briars, &c, in transformer plot to the big ash tree in front hedge & cut the stems of ivy on the N. side which I could never reach from our side of boundary & which job I have long funked, but it is done & I still alive.

29. 21st June 1964.
Another fine & breezy day with wind backing in afternoon from NNW to W, cloudy in forenoon, but with considerable sunny intervals later.
Sunday. Before dinner I had 2 hours walk in the woods, up to the new Top bridge, down to Lindsay's Leap & home via Coward Lady's way. Took 6 ♂ & ♀ sawfly with the hand =
& 2 specimens of Veronica officinalis for comparison with the Bogue's Hill form from Co. Antrim. Heard a Whitethroat singing on The Green Hill,
22nd June. A nice day with light E breeze & much hot sun in early part after a dry calm night, but cloudy from about 3 P.M. onwards & a light drizzle & no wind from 8 PM till bedtime. Spent forenoon weeding paths near pond & after tea moulded up & weeded potatoes between peas & strawberries. Our second strawberry ripe & given to George for Dora & Dawson, when he came to tea
23rd June '64. After heavy rain at night, we had a dry, cloudy, mild & calm day, with lots of midges. Spent forenoon weeding front drive near gate. Later transplanted Daphne eximia from centre of NW corner plot near the Whim to NW corner of triangular plot above the plastic pond, as it has sprawled in all directions over its neighbours. Also transplanted to NE corner of same plot two "Composite" seedlings from Norway, grown from seed sent me by Mrs. F. P. Beattie last autumn. These are the last of her seedlings I have, as the remainder did not germinate. NB. In same pot came up a score of seedlings which I think were ~~[illegible]~~ Campanula & these I threw out all but two which I planted next the two "Composites".
A solitary Speckled Wood Butterfly has haunted the back garden for several days, but whether it is 'late' or 'early' I don't know. It appears freshly emerged & I have seen none for a long time!

24th June 1964. 30
A very nice, calm, warm day after a dry calm night, but for the most part cloudy with little fog for a time about noon. Spent forenoon weeding front drive, cut front lawn in early afternoon & then had two visitors from Dumfries to see round garden, who are visiting Newcastle. Names unknown!
After tea had good bonfire.
25th June. A fine, warm & dry day, after a dry night; wind on shore & cool, but very light. Cloudy in forenoon, but all but sun from 4 P.M. till sunset. Continued weeding front drive in forenoon, later trimmed path by the lawn in back garden from garage to big alder position & got all [illegible] after tea [illegible] [illegible] bed!
26th June. A very nice calm & warm day till after tea when a drip started as a trough approached from SW & some light rain fell before bedtime. Cut lawn & weeding drive in forenoon; helped Daisy to remove nets on strawberry plots (2) & while she picked the fruit I weeded the plots. During this a lad from Yorkshire, staying with relatives in Newtownards, called to ask for information as to where he might look for the Pearl mussel (M. margaritifera) & I advised him to try the Bann above Hilltown bridge. After tea I gathered the weeds off strawberry plots & we put back the nets. I then watered plants in greenhouse & had just opened front gate at 8 P.M. when R. C. Faris arrived to spend the night. He brought with him the first half of typed copy of our List of Irish Sawflies, a pair of cloth from Sheppey, & dried material of Salix spp. from herbarium in Nat. Museum, including the volume

26.6.1964. cont.

of David Moore's "Hortus siccus" for Co. Antrim, collected by him when attached to the Ordnance Survey in 1836–38: this included a specimen labelled "Glenoe, near Cushendall" [not near Larne! AWS], which could belong to the Scottish form of S. phylicifolia, but is labelled "? nigricans": it might also be only a form of cinerea! Also included in a loose parcel were two specimens collected by "C. Moore" in July 1839: one has no locality, but the other a locality as "Urris Mts, near Buncrana(?)"; a "C. Moore's Donegal" plant also attached in a letter from T.H. Corry to D. Moore dated 9th March 1883 stating that he & Prof. Babington considered them to be S. nigricans, while Faris & I felt sure they were S. aurita; Barrington & Vowell's specimen of S. hibernica, 1884, from N. slope of Ben Bulben; S. nigricans from L. Derravaragh, Westmeath, 28.5.1895, coll. by H.C. Levinge; a specimen named "nigricans form" from Ballyseedy Woods, Tralee, 23.6.'90 coll. by R.W. Scully & identified by J. Buchanan White which we thought more likely to be a form of cinerea (not recorded by Scully in Flora of Kerry: see p. 265!); a specimen labelled "? nigricans, ex herb. H.C. Hart, from Croaghnacleragh, near Ardara", which could be hibernica or a hibernica hybrid (R.C.F. & AWS.); also a mixed lot from Mweelrea, Co. Mayo, H.C. Hart, varied & very strange forms & I think not recorded (?) & on another sheet & also labelled "Mweelrea" a specimen labelled "cinerea" which we thought to be more likely aurita; and a specimen named "nigricans ?" coll. by Miss Knowles on 24.6.1909 by "Stream near Lugaloughan L.

26.6.1964, cont.

Co. Mayo" (a locality given in Cybele II, as a spot where H.C. Hart had taken S. phylicifolia & recorded it in "1883, 9" (we consider Miss Knowles' plant might well belong to S. hibernica!); finally there is a miserable little specimen of a Salix (S. sp.?) coll. by S.A. Stewart on 28.6.1875 on Ben Bulben, which record is inserted in T.H. Corry's copy of Cybele I, in his writing, but omitted in Cybele II for some reason or other.

27th June. In forenoon Faris & I spent an hour in the Slieve Donard nursery & talked to Mr. Bryce, & later made the [illegible] notes on the nat. mus. willows; after dinner we spent sometime in garden & Faris left for Dublin shortly after 2 P.M. with a few plants. Later I cut grass in the [illegible]. There are now several Speckled Woods in garden & while there have been specimens of the pond-skater Velia on the polythene pool almost since it was made, I had not seen a specimen of Gerris there until today, when there were three (but sp.?).
Small ♀ Hemiptera taken running swiftly on path – back garden = H. ♀, ant. 22.

28th June. Sunday. A very nice, calm & warm day with much very hot sun, after a dry night.
Had two hours stroll in Drinnahilly Wood, & took two ♀ sawflies (   ) with sucker off spruce, saw 2 Meadow Brown butterflies in fields below wood & Carex ~~sylvatica~~ by steep road where Belfast water supply is brought up to upper road to feed Newcastle supply.
In afternoon I put the large family of Helix aspersa into a large wooden box to give them more room (some now 2/3 grown); these are F1 of "P[ortaferry]"! Saw the frog twice today.
Only starred Carex laevigata! A.W.S. see p. 34, under date 1.7.1964. A.W.S.

28.6.64, cont.

in the pond, with eyes & snout only above water! Of the 3 large pond skaters seen yesterday only 2 alive & well today, with the third seen on surface either dead or disabled & later gone. I don't know if the frog or the water beetle or what is responsible.

29th June. Similar to yesterday & mainly very hot sun, but becoming cloudy in evening, though barograph high & steady. Spent part of forenoon with Mr Caldwell & we tentatively arranged to make an attempt to get up Slieve Bingian next week & to get into training, I had an hours' walk in the woods after tea → 8 till 9 P.M. Also went to P. Office & had bonfire
& took 2 ♀ Sawflies =
before tea. At 4 P.M. at shallow end of plastic pond there was an extraordinary congregation of small water beetles (   ) evidently I would think for mating purposes — the water being quite warm. The two specimens of Gerris still there & I noted they had a reddish thorax, seen from above. Therefore possibly *G. thoracicus*!

30th June. Similar to yesterday, very dry with much hot sun. In forenoon I had to de-sprout, once more, the Golden Wonder potatoes, which we are only now commencing to eat & have three large basket-fulls from last year. Later I sunk some small pots in shadow of greenhouse, including those containing the three Primula *scotica* grown by Lexie, as these were looking sick with heat of greenhouse. Later cut (part) of Barberry hedge in front garden & at 8 P.M. went for my hours' walk in the woods, which lasted 1½ hours as I met Mr Caldwell & we went round all the sedges en route. Took a male black [illegible] running on path in back garden = cf. [illegible], ent. 18.

1st July. Similar! Clipped Barberry hedge on outside in forenoon. After lunch I was picking the raspberries which were being mauled

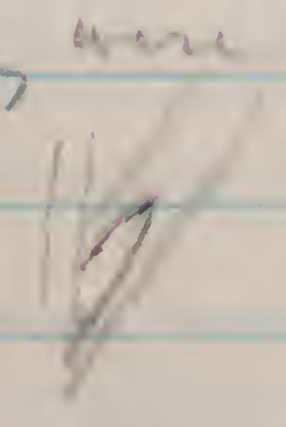
1.7.1964, cont.

& broken down by three young blackbirds, which destroy more than they eat by breaking the twigs which bear the sprays of fruit.

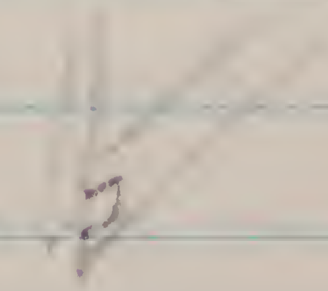
While picking these the Yorkshire lad, Norris, arrived to report that he had failed to find any Pearl mussels in R. Bann above Hilltown & stayed to talk about Pisidia till after 5 P.M.

After tea I had various duties to attend to but at 8 P.M. I went out for my hours' walk in the woods, where I collected 4 specimens of sedge to decide if all were *C. laevigata* or if one was *C. sylvatica* & after an inquest decided they are all *laevigata*, as ligule is very large compared with that of *sylvatica*, but owing to some growing in shade & very dry ground they were stunted & looked like *sylvatica*.

Ligule of
laevigata



Ligule of
sylvatica



2nd July. Mainly dull, with occasional very light drizzle, which did not even wet the stones, but some sunny intervals in early afternoon. Wind rather fresh & westerly. In forenoon I gathered, packed & posted three flower spikes, & one barren tuft, of *Carex depauperata* to Clive Jermy at B.M. Bot. Dept., at his request. I then finished clipping the front Barberry hedge. After dinner I helped Daisy to pick strawberries & had bonfire. After tea I cut 10 yards of my side of Anderson's privet hedge near compost heap to give more light & air to our peas & potatoes. At 7.45 P.M. I started off for my hours' training in the woods & found that a patch of plasmodium seen on roadway last evening had turned into the myxo *Fuligo septica*. The first ♀ flower on Daisy's vegetable marrow opened & from the frame I got two ♂ flowers with which to pollinate it.

3rd July 1964.

After some rain during the night, which refreshed the garden, we had another very nice, if not so sunny as recently, with light cool NW breeze.

Received two small patches of *Hymenophyllum wilsonii* from Islay, from Mrs Nora Fisher McMillan & planted it in a bowl with pieces of concrete (broken fine), sand, leaf mould & vermiculite (well wetted) & then sprinkled vermiculite over it, put it under bench in greenhouse & covered it with a bell-jar. But doubtful if it will grow?

Received back the transparencies from Mr Garrick taken when he & his wife were in Newcastle at end of May. Cut another length of path-edging the lawn in back garden. In afternoon fed snails & noted that some of those in experiment P1, now 2/3rd grown, are becoming semi-scalariform, which is definite proof that this character can be inherited!

After tea wrote letters & at 8 P.M. went for my hour's walk in woods.

Took four photos in garden in afternoon, good light, but not sun, at 1/30th of a second; that of White Bistort being the last.

4th July. In forenoon I cut grass [illegible] round patch of Rhin in verges. After dinner I started to cut front lawn, but found the new battery not fully charged & it only cut about 2/3 of the lawn; the charger is not working for some reason or another. After afternoon tea Daisy & I picked 1 3/4 lbs of strawberries & I gathered up some of the cut grass. After tea I picked raspberries & at 8.10 P.M. went for my hours walk & on the way I saw the plant of *Carex ovalis* I discovered last autumn by the road close to the "fire point" near the shepherd's old cottage now used by the "Mountain Rescue Team", caught a toffy-coloured night-flying Braconid = *Zele geminator* Lyle; a moth clinging to a grass stem in the

4.7.64, cont.

manner of a blue butterfly = ♂ *piniaria*!; & one of the many golden coloured Swifts flying over the grass & bracken as I came down the Green Hill at 9.10 P.M. = Golden Swift

Another very nice day of cloud & sun after a clear night & early morning; wind NW & very light, except for a cold on shore breeze in the afternoon; no wind by 10 P.M.

5th July. Sunday. Spent forenoon in house clearing up various things; afternoon in 2 hours walk in Drinnahilly woods & saw 2 flowering plants of *Pinguicula lusitanica* in drain by the road above the shepherd's old cottage & quite a few seedlings; took an *Eleocharis* beside the butterwort which I think is *E. acicularis*, but not sure. After some weeding in evening I wrote letters. A very nice day with several short showers & NW wind, which was at times fresh; many sunny intervals. a small Aphidiine (♀?), ant. 15, emerged from an Aphid which was a pest on leaves of the Arum Lily in greenhouse.

6th July. A very nice misty, sunny & calm day, after a dry night, but rain promised for tomorrow as anticyclone moves away over Atlantic & trough connected with depression near Greenland approach from NW.

In forenoon I did various jobs in back garden & finished cutting front lawn left undone on Sat. In afternoon I had bonfire & later we picked strawberries & at 7.30 P.M. I took 3 1/2 lbs. of raspberries up to the Misses Murray & found they were not at home & so had to leave tin on doorstep. Then continued my walk into the Drinnahilly woods, where I picked up (1) 2 dead sawfly caterpillars clinging to grass stems, but ?parasitized; No! AWS. (2) one ~~Apanteles~~ *Pygostolus sticticus* ♀ cocoon on top of tall grass stem; (3) ~~another~~ two caterpillars under a leaf of same Sycamore as ~~two~~ one taken on 1.7.64, all parasitized by a *Rogas*; (4) the following Parasitica taken with sweeper on leaves of the Sycamore by upper road 1/2 mile W. of Forester's cottage at top of the Green Hill:—

From which emerged *Rogas similis* C. ♂, ant. 38, on 20.7.64; & *R. similis* C. ♀, ant. 38, on 14.7.64; & *Leptocorypha lamina* Thom. ant. 28. ♀, on 31.7.64.

6.7.1964, cont. Grimsditch. D.O. 9 P.M. cont.

Stenichneumon depredator 2♂♂, of small dark form! Ant. 35 & 36

Leptocryptus aereus? ♀. ant. 27.

Mesochorus temporalis? or vitticollis? ♀, small: ant. 38.

7th July 1964. As promised, gale from SSW. & rain blowing, wind, but never heavy, all day; clearing, & wind dropping about 7 P.M. No work in garden! Put in 6" pots in greenhouse 7 seedlings of Cyclamen {F.1. Sakatas / Double mixed} sown some time ago.

8th July. After a dry night, we had a showery day with hot sun bursts, except in afternoon & early evening, when no showers fell here: barograph started to rise about noon & rose steadily, while wind gradually veered from SW to W & and NW. Light for most of the day, but increasing in evening to fresh, with showers between 9 & 9.30 P.M. In forenoon helped Dain to pick raspberries & then commenced to cut, with sickle, the 'hay' on the mound in wuzzy. This job I finished in afternoon & then cut most of the wuzzy not covered by the hay. After tea had 1½ hours walk in the woods & collected with sucker the following parasitica: Eclytus haematothorax ♂ ant. 37. ant. 38 (See p. 51 - 24/7/64). Monoblastus palustris var. caricis, 2♂♂, ant. ca. 37. Cryptoserphus aculeator ♂. Beetle =

At 4 P.M. in hot sun I watched a fresh ♀ Hylaeus confusus, on flowers of Rubus in the wuzzy & also a most beautifully fresh ♂ Bombus pratorum.

9th July. Another showery day with strong W. wind after a dry windy night, but started bonfire at 10 AM. & got all the hay & other things burned before the showers became heavy (just after dinner). In afternoon went to call on Mr Linens. No other work possible in garden.

10th July. After a dry, windy night & very pessimistic forecast at 8 AM, we had a very nice day with much sun in forenoon & wind dropping to calm & cloudy in afternoon, when

10.7.1964, cont.

barograph started to drop: drizzle commenced about 6 P.M. & by 9 P.M. it was blowing a gale from SSE with sheets of rain. However I got an hour's walk in the woods between 7 & 8 P.M. without getting more than a little rain blowing in the freshening wind.

In forenoon I trimmed willows & hazel in wuzzy & in afternoon cut up the branches trimmed & cut back lawn. As I came home, about 8 P.M., through the park there were many many true Swallows dashing about under the big trees (ash & oak) ! which I feel sure were on migration as almost all our Hirundines about here at midsummer are House Martins. A dead Bombus jonellus ♀ found very fresh & dead on lawn. ?Poisoned?

11th July. After rain during early part of night the garden was very wet, but no rain fell during the day & it was really a very nice day & much warmer than the last few days & towards evening the W. wind completely fell. During the day my only work in garden was weeding & gathering raspberries. In evening I went out for my walk in the woods at 7.30 & came home at 9.30 P.M. On outward journey I picked up a twig on which a series of eggs (hatched!) laid in the characteristic fashion of the Vapourer Moth were on it. Then three isolated ~~Apanteles~~ Pygostolus — see p. 47 → cocoons on grass stems, all similar to that on 6th (p. 36, antea): later I went up through the woods & stopped to examine a small bush of sycamore on the leaves of which I took with sucker about 12-15 small Parasitica & by hand a large black ♀ Ichneumon which most probably was Stenichneumon culpator, but escaped when I opened my hand. Finally on upper roadside I stopped to look at a small birch bush on bank above the road which looked rather sick & on this I found possibly the greatest concentration of Parasitica I have ever met with. As I had only one small sucker all had to go into it in addition to those taken earlier on the sycamore. I suspect it was the work of Aphids which had affected the health of the bush & that the attraction was honey-dew on the leaves, which were very small & often somewhat crumpled, but the light was now failing & having taken a few dozen specimens I had to go home. Earlier, in afternoon just before tea (3 till 5.30 P.M.) I swept in the wuzzy in back garden, where many "minutiae" were taken as follows:—

11.7.64, cont.

Parasitica taken by sweeping in back garden, 21 Tullybranigan Rd, Newcastle, Co. Down, 5.0 till 5.30 P.M. [? labelled on 2.2.65.

Promethes [illegible] ♂ Mesoleius ♂

Aperileptus obliquus ♂

Aperileptus sp. pallipes ♂

Opius ♀ Pentapleura pumilio 3 ♀♀ {small & dark.

Aspilota 5 = A. crassifemur 2♂♂, 1♀, ant. 26, 26 & 25. A. pallida, minute, dark, ♀, ant. 15.

A. concinna, ♂ ant. 22.

A. (S.) ♂

Dacnusa laevipectus ♀

Prion 2♀♀

Aphidiinae spp 4 ♂♂

Proctos, Ceraphronids, Cynipids, ca. 30 Belytid: Aclista? small ♂

Diapriids: ♀ of sp. 4, ♂ of sp. 8: these are almost certainly the sexes of one species.

Beetle 2 "full stops" =

Taken in Drumnahilly wood, above Newcastle, Co. DO. either on sycamore or dried leaves, with sucker, at ca 9 P.M. [29 labelled on 22/1/1965.

Atheleia cincta 1♂ (? at birch)

Phaeogenini: Gen. et sp. ? ♂, ant. 23 =

Cratichneumon rufifrons, small ♂, ant. 33. Aoplus defraudator ♂, ant. 36.

Cryptinae 3♂♂ (2 spp) but only 1 retd = Stylocryptus? cf. brevis? : ♂, ant. 26.

Exochus 1 = ? either inconditus or pictus, ♀, ant. 28.

Bassus annulatus 1♂ 2♀♀ not retd.

Homocidus 1♂, pal. = H. pallipes ♂, ant. 24.

H. biguttatus, 2♀♀, ant. 21 & 22 one has scutellum black, the other white at apex!

11.7.1964: 9 P.M. cont

Drumnahilly, Newcastle, DO, cont.

Monoblastus palustris var. laricis etc. forming the vast majority of the [illegible], but owing to failing light not easily distinguished from some of the other species present, 26 ♂♂ & 6 ♀♀, therefore amongst those taken: some retd.

Mesoleius? ♂, ant. 27 =

Tryphonid ♂ = Tryphon incestus? : ♂, ant. 34.

Stenomacrus ventralis, large ♂, ant. 26.

Plectiscid ♂ = Aperileptus albipalpus? ♂, ant. 21: very small!

Aspilota 4 (the only Braconid.'). A. tumida, a [illegible] ♂, ant. 18. {A. sp. ? ♂, ant. 21, no dimple, prop. smooth with central rugose strip.

A. sp. ♂, ant. 22, with dimple, rugose prop.? [illegible] A. (Synaldis) [illegible] ?: ♀, ant. 18

Belytids 6 Cinetus cf. procerus Thoms. (= dentatus Kieffer?): 4 ♂♂ (3 on one card + 1 single!)

Pantoclis cf. numen Nixon: ♀

Pantoclis sp. large, dark ♂: accidentally knocked off its card & replaced! 26/1/65. AWS,

Proctos 5 = Exallonyx longicornis ♂; also a ♀, which has a conspicuous tuft of hairs where the swelling behind the eyes!

Cryptoserphus aculeator 2 ♂♂.

Chalcids 1

Beetle = Coccinella

12th July Sunday. A nice calm & dry day, after a similar night with occasional sun after an early misty morning. At 12 noon I went up the Drumnahilly wood & found, as last night, the little birch bush by the upper road swarming with insects of which over 90 percent appeared to be either Diptera (mostly Scatopsa sp.) or Monoblastus palustris var. laricis, which latter also seen on several sycamores E. of the birch. Took also a large ♂ Asilid dipteron on path between mid & upper road below the "waterfall of bricks": I can't name the species at present (   ) but believe Shaw

12. 7. 1964, cont.

seen it in Tollymore Park, but never succeeded in catching it.

Also took a very red & black ♀ Tenthredopsis nassata & a ♂ Tenthredo balteata ♂. Killed my first clegg of season; & saw at least two large ♂♂ black Ichneumon (s.l.), with white banded antennae, but failed to catch one, as I had no net, on leaves of sycamore.

For rest of day I weeded or helped Daisy to pick strawberries or fed mails or cleaned out upper reservoir in the wee burn & in doing this I disturbed an eel at least a foot long. [On kitchen window took a ♀ Liriope culiciformis.]

13th July. An almost entirely sunny day after 10 AM. till 6 P.M. when a trough approached from S., after a dry cloudy night with heavy dew. George & family here for the day from Ballymoney!

Had bonfire in forenoon, did various jobs in afternoon & went up the wood for an hour at 7.30 P.M. with net & swept sides of upper road where I collected off the birch & sycamores the last two days. The ♂♂ of Monoblastus palustris v. laricis still up the birch but only in ones & twos. Conditions, however, were not so congenial tonight, wind SE & strong & cool & drizzle just coming on! However, by sweeping the grass on each side of the road for a furlong or so I swept the following insects.

Roadside by upper road on N. slope of Drinnahilly, Co. Do
[18 labelled on 17.1.1965.
from 7.50 till 8.15 P.M.

Cryptinids 3: none mtd.

Ctenuscid ♂ = Chorinaeus flavomaculatus var.? ♂, ant. 26.

Polyblastus 3: 2 only mtd. = Polyblastus propinquus, 2 rather small ♀♀, ant. 26 & 27.

Gen. et sp.? A small, very black ♀, ant. 27: = Polyblastus palustris, var. laricis!!!

Mesochorus cf. temporalis (large) ♂, ant. [illegible], 3 small (2 mtd.) = M. cf. curvulus Thoms. 2 small ♀♀, ant. 31 & 33.
I now think to curvulus in Schmied. but have little faith in the name. AWS 1965.

---

13. 7. 64, cont.

Roadside, Drinnahilly, Newcastle, Co. Down, 7.50-8.15 P.M.

Bracon obscurator Thoms. ♀, ant. 2?, very dark wings; antennae longer than [illegible] with its head [tibiae only pale at base! AWS. 1965]

Euphorus pallipes ♀ (not mtd.)

Opius irregularis ♀, ant. 25.

Pentapleura angustula ♂: not mtd.

Phaenocarpa livida ♂: not mtd. A. ruficeps 1 dark ♀, not mtd.

[now [illegible]!]

Dacnusa adducta ♂, 2♀♀ not mtd. D. cyclops 3; not mtd.

D. [illegible] 3: not mtd.

Ephedrus lacertosus ?: not mtd. Aphidius spp. 3: none mtd.

Proctos. 12 (+ 12 minute) ♀ mtd. = Exallonyx ater ♀. Cryptoserphus longitarsis 2♀♀, I think certainly this species!

Leptorhaptus 6 specimens & I think 3 spp. but can't satisfy myself as to their names! AWS. 21.1.65

= L.(1) sp. 2 male ♀♀. L.(2) sp. large ♂ & ♀ [transverse head & large eyes.] L.(3) sp. 2 small dark ♂♂

Chalcids 5: none mtd.

14th July. After a SE gale with very heavy rain during the night, we had a dull humid forenoon with some drizzle, clearing gradually as wind dropped & veered SW to a nice afternoon, with some sunny intervals. Spent entire day from 10 AM. till 5.30 PM. mounting the accumulated parasitica, not including those taken on 12th & 13th.

After tea I went up the wood at 7 PM. & returned at 9.30 PM. & spent most of this time collecting, off laurel, sycamore, &c., with net & sweeper, & took the following insects:—

Drinnahilly wood, Newcastle, Co. Down, 7.30-9.0 PM

Tenthredo colon ♀. Dolerus aeneus ♂.

Barichneumon locutor ♂ not mtd. Aoplus defraudator, ♂, ant. 36.

Cryptinid ♂, 2♀♀ = Gen. et sp.? (Microcryptus?) ♂ ant. 28: same sp. as ♂ from Ballinacorney, Dub. 8.7.58

Hemiteles? sp. small ♀, ant. 21.

Phygadeuon? sp. ♀ not mtd., ant. 21.

14.7 1964, P.M., cont.

Drinnahilly wood, Newcastle, DO., cont.

3 ♀♀, 2 large, ant. 32, 1 small, ant. 31: unrecognised before mounting!
Monoblastus palustris var. laricis: ♂♂ still common through the wood. ! none taken.
Tryphon signator 3: none mtd.
Mesoleius sp. ♂, ant. 28: black species.
Mesochorids 2 ♀♀ = Astiphromma strenuum, large ♀, ant 40. Only one mtd.
Metopius ♂ & ♀, not mtd.
Plectiscid 4 = Aerobleptium dentifer ♂, ant 26. Apsilops sp. ♀, ant. 23.
Plectiscus sp. ♂, ant. 22, ♀, ant. 21: probably same species.
Meteorus albiditarsis ♀, ant. 43.
Aspilota procipua ♀
Orthostigma dorsale ♀ not mtd
Proctos. 5: 2 only mtd. = Cryptoserphus longitarsis Thoms.
the first Irish record for this species, confirmed in letter dated 14/1/65 by G. E. J. Nixon: 1 ♀ with testaceous pronotum; a second ♀, not seen by Nixon, is also this species. AWS. 15/1/1965.
Pselaphids 3 = Zygota exisipes ♂
Leptorhaptus moniliconis 2 ♂♂.
Chalcids 1 =

about noon in back garden a large leafcutter bee passed me carrying a piece of green leaf & alighted on a stone, so that I could see it was ♀ Megachile willughbiella!

15th July. After a dry night & a very bright sunny morning, the remainder of the day was very warm, with light SW breeze & very hot sunbursts between cloudy spells. Spent forenoon in front border, sorted out last night's catch of hymenoptera; picked strawberries, & after tea at 7 P.M., went once again up the wood & collected with net & sweeper till 9 P.M. & took many insects: see opposite page →

Insects taken by sweeping along middle road, along the "old track" & up to near the shepherd's old cottage & back along upper road, all on N. slope of Drinnahilly

15.7 1964 cont.

Insects taken in Drinnahilly woods, Newcastle, Co. Down: 8-9 P.M.

Sawflies 3 = 3 mtd. = Genus et sp.? one black & one testaceous.
Tenthredo livida ♀.
Cryptinids 3
Monoblastus palustris & laricis: ♂♂ abundant & on everything; 2 ♀♀, ♂ in number: none mtd.
Tryphon signator 1: not mtd. Stenomacrus ventralis 1 ♀: not mtd.
Exochus 1 =
Other Tryphonids 3 =

Mesochorus 2 =

Campoplegids 2 =

Plectiscids 4

Apanteles 3: 1 mtd. =
Microgaster ♂ =
Euphorus pallipes 1: not mtd. Pentapleura angustula: minute ♀: not mtd.
Aspilota 13: 10 mtd. =

Dacnusa adducta ♂ & D. discolor ♂: the only Dacnusids seen: not mtd.
Monoctonus cerasi? several minute ♂♂: not mtd. Ephedrus lacertosus ♀: not mtd.
Aphidius: several ♂♂: none mtd.
Proctos, Chalcids & Cynipids: minute spp common, larger scarce: only 7 Proctos, & 1 Chalcid mtd.
P.T.O. →

45 15.7.1964, P.M., cont.

Drinnahilly wood, DO, cont.

Proctos.

[illegible] ♂ with another similar not [illegible] =

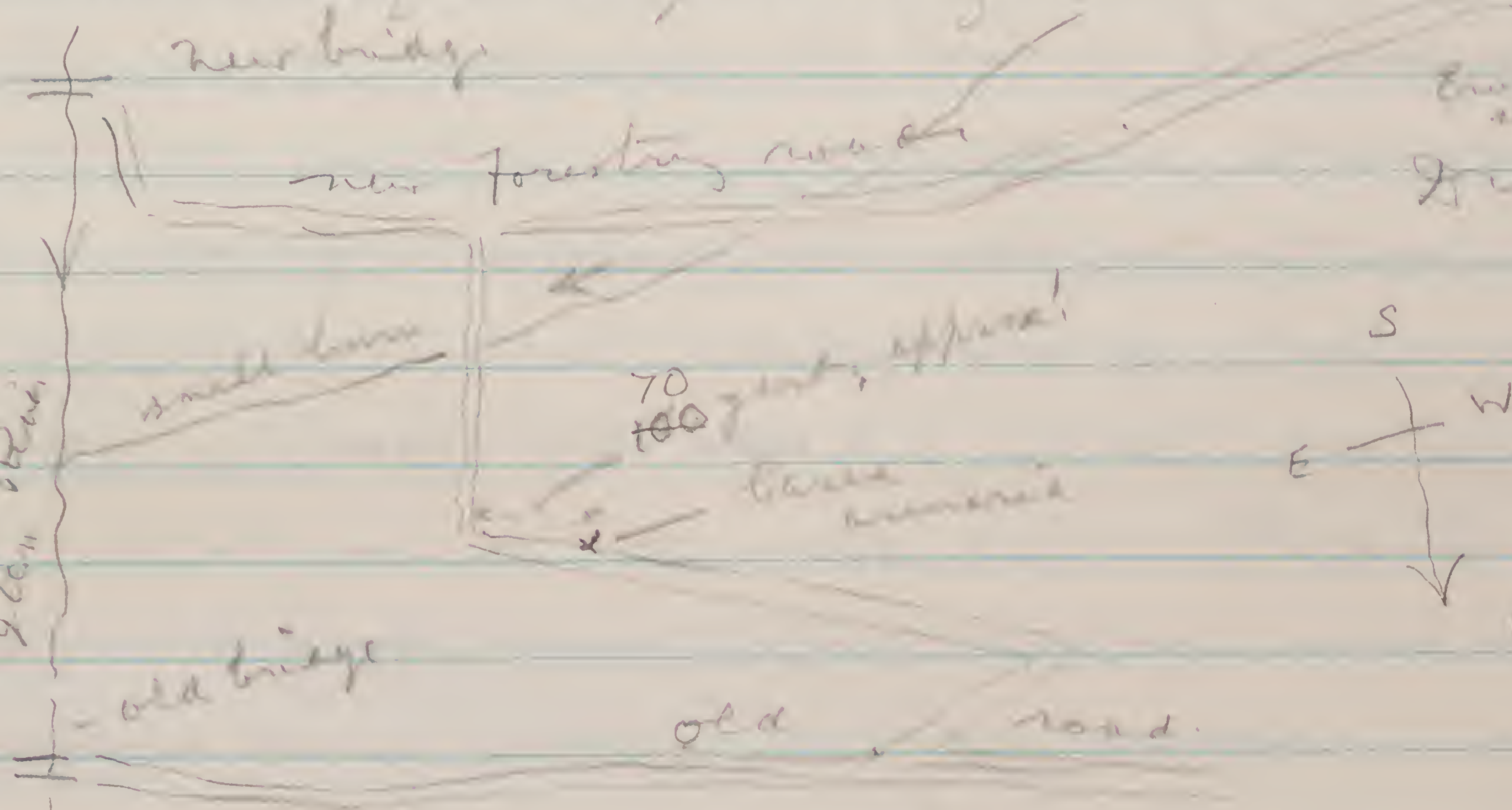
16th July 1964. A very warm & calm day after a dry night. Wind very light E (on shore) falling calm & becoming cloudy in late afternoon. Had bonfire, weeded, & cut grass in muggy [illegible].
Did not go for walk in evening.

17th July. A very soft warm day, with sea-fog & drizzle in early morning, but soon clearing & a very hot sunny afternoon.
George & family again with us from Ballymoney. Spent most part of day clearing up the sedges in plot. After family left at 8 P.M. I went up the wood, & returned at 9.30 P.M., but did not collect.

18th July. After a calm, dry, muggy & misty night, we had a short thunderstorm between 10 & 11 AM. (very serious storms occurred in England, especially in Lancashire about same time!) with very heavy rain & no wind whatever. The rest of the day was muggy & very damp & no sunshine whatever: very light NE breeze at times.
In evening a "Scotch mist" commenced about 7 P.M. just as I went up to the wood, so I came back home having taken one ich. on laurel. In spite of wet I cut front lawn between apt tea & proper tea.
Found a half grown Lime's [illegible] crawling in the wood, of the same green greyish form as on , with only slight pale head & no stripes on [illegible]!

19th July 1964 Sunday. 46

After a calm & damp misty night, a light W-SW breeze sprang up after breakfast & produced a lovely, mainly sunny day, with dry fresh air.
I left house at 10 A.M. & walked up the green hill, "Long Reach" & new top bridge over the Glen River, to the old quarry on N. face of the Drinnahilly hill, & thence road along the plantation to the "Ice House" & home at 12.30 through the plantation. On return journey I found a nice patch of Carex arenaria (with 5-6 flower spikes) growing on S. margin of the new forestry road at 600-700 ft. NE of Drinnahilly.



See also sketch map on p. 125 under date of 24.1.65 →

A specimen of [illegible] ("pictus ♂?") seen on roadside a little below the Carex!
Picked strawberries, fed snails & did some weeding!
Took the following Parasitica on way home in Drinnahilly plantations:—
Sawfly Lygaeonematus laricis ♀
Cratichneumon rufifrons, ♂, ant. 35.
Meteorus, deceptor or pallidus? ♀, ant. 36+, bitten off.
Also picked up a freshly emerged moth — a beautiful Golden Y!

20th July 1964.

After a dry calm night, with thick hill-fog, we had a dull day, with light on-shore cool breeze, which eventually, at 7 P.M., brought in a sea-fog with an hour's very light drizzle, while I was collecting in the Drinnahilly woods.

In forenoon I had bonfire; in afternoon I cut back laurel & did some pruning & weeding; in evening I went up the woods at 7.30 P.M. (just as the drizzle commenced), & returned at 9.10 P.M. Collected with sweeper & net off birch, sycamore & laurel. Chiefly on upper road near the shepherd's old cottage, but the main haul of small parasites came off the now famous birch bush above upper road covered with honey dew.

Drinnahilly woods, Newcastle, Co Down. 8-9 P.M.

The cocoons resembling Apanteles cocoons, & similar to those taken on 6th July (p.36) & on 11th, were collected off Sycamore leaves. From those collected on 6th & 11th there have now emerged not an Apanteles but 3 ♀♀ Pygostolus sticticus!!! These insects when freshly emerged appear more than twice the size of the cocoon from which they emerged & yet they are perfectly formed. How do they manage it?

& 1 hyperparasite Hemiteles areator ♀ em. 13.8.64

Trichoptera =

[6 labelled 16.1.1965.

Cryptinids &c. two only mtd. =

Orthocentrus & Stenomacrus spp. 4 =

Mesochorus spp 6 =

Campoplegids: 20+, 1 ♂ =

Plectiscids ♀ =

Ascogaster instabilis ♀, ant. 33.

Microgaster politus ♂.

Meteorus obfuscatus ♀; same as ♀ taken on 26th; see p. 54 →. Ant. 25.

Pygostolus sticticus ♀, ant. 32.

Aspilota sciurella ♀, ant. 22; proportions not as given in the key, but I think this species!

Aphidius renominatus ♀, ant. 16. (? a minute ♀, but probably this species) [also 1 ♂ not mtd.]

Proctos. 11 none mtd. & a few minute!

Belytids 10 =

Cynipids 2 larger, several minute, brachypterous; none kept.

21st July. A cloudy, mild & calm day, with thick drizzle from 6 P.M. for a couple of hours, as breeze shifted from SE (on shore) to NW. & dropped entirely. Spent most of forenoon mtg. insects recently taken & then did some "pruning"; after dinner I continued the pruning & removed the Lonicera bush on upper path & then had bonfire of all the prunings! As drizzle came on at tea time I did not go up the woods tonight & mounted the remainder of arrears.

22nd July. A dry, dull, calm & warm day, after rain during night. Did a lot of clearing away overgrown plants in back garden during fore & afternoon & after tea, when very dull, but no drizzle, I went up the Drinnahilly woods to the shepherd's old cottage at 7 P.M. & found very little out & nothing on the Laurels, but took the following:—

22.7 1964. cont.

Drinnahilly woods, Newcastle, Co. Down 7-9 P.M.

Grass in most places too wet to sweep & so most insects taken with net off sycamore, birch, willow (near cottage?) & a few off leaves.

Aphelinus [illegible] off sycamore =

Cryptinids 2 =

Ctenisceids 1 & other Tryphonids =

Mesochorus 3 small =

Campoplegids 1 =

Plectiscids 6 =

Rogas ♂

Pygostolus sticticus, 1 large ♀: not std.

Pentapleura pumilio 2 small ♀♀: not std.

Aspilota 3: not std.

Dacnusa adducta: not kept. D. maculipes 2 ♂♂ not std. D. longiradialis 1 ♀, not std.

Proctotrupinae 12 (11 ♂♂, 1 ♀): only the ♀ std =

Belytinae 6 =

Proctos, Chalcids & Cynipids: minute: 27 none std.

23rd July 1964. After a dry misty night, we had a cloudy, dry & calm forenoon, but in afternoon for a couple of hours we had blue sky & hot sun, then cloudy with thick fog once more. Wind NW or nil!

In forenoon I cut back various things which were crowding their neighbours, in afternoon I had a bonfire & cut front lawn; after tea I added longer poles & cord to the Sweet Pea, which had suddenly shot up to four feet & produced buds; then at 7.30 P.M. I took the net & went up Drinnahilly wood & collected till 9.30 & took the following Hymenoptera:—

Drinnahilly wood, Newcastle, Co. Down, 7.30 till 9.30 P.M.

Ephialtes [illegible] 2 ♂♂, not std. [illegible] ♂, not std.

Amblyteles ovatorius ♂, ant. 45, but sculpture of propodeum not typical!

Cryptinids 2 =

Ctenisceids 2 =

Promethes "laticarpus" ♂, not std.

Homocidus [illegible] ♀, not std. + H. pectoratorius ♂ ant. X.

Trematopygus? 2 =

Campoplegids 4: none std.

Plectiscids 4 =

Rogas 1 –

Pygostolus sticticus, large ♀.

Opius [illegible] 2 ♂♂, not std.

Pentapleura pumilio, small ♀, not std.

Aspilota 1 large ♂, 1 smaller ♀ =

Ephedrus [illegible] ♀, not std. Eph. plagiator ♂, not std. Aphidius spp. 2

Proctos. 8; none std. Minute spp. Proctos. & Chalcids, + 12: none std.

Belytids & Diapriids 10 =

Chalcid 1 ♂.

24th July 1964.

After a dry night, a sunny early morning, but cloudy by noon; warm with fresh S. breeze. Found remains of a Six Spot Burnet Moth on back lawn, which I did not know occurred in the garden. Trimmed (partly) Salix hibernica in rock garden & had bonfire later & got it burnt.

Between dinner & after tea I spent an hour between Donard Lodge & The Green Hill looking for sawflies around several laurel trees, but with no success: insects taken listed below & all labelled "Donard Lodge". After tea we both walked to the Cherry Valley to the Kendall's cottage to see our old greenhouse which he has re-erected in his garden & made a very good job of.

Insects taken between 2.30 & 3.30, between Donard Lodge ruins & The Green Hill, Newcastle, Co DO.

Andrena coitana: small ♂ found inside kitchen windows.

Ichneumonids 2 =

Braconids 2 =

Bassus ♀.

Promethes laticarpus ♂ & Homotropus longiventris ♂ neither ntd.

Another of the queer Eclytus-like insects taken on same laurel bush between 1st & 2nd hairpin bends in wood above Ben Crom Park on 8th. = Eclytus haematothorax ♂, ant. 36.

Picrostigeus sp. ♂, ant. 27.

Campoplegid 1 =

Phaenocarpa ♂

Dacnusa 1

Sawflies off Salix cinerea by drive, 2 ♂♂ = Nematus {? stichi or ? hypoxanthus?

Dipteron =

Hemipteron, nymph?, immature, on laurel tree = Temnostethus gracilis?

minute Proctos. 4 =

25th July 1964

Another very fine day, with at times very hot sun, after some drizzle during night. Continued clearing up rock garden in forenoon & after dinner went into the woods & took a few insects; continued work on rock garden & after tea cut grass in [illegible].

Took the following insects in Drinnahilly wood (as yesterday!) but failed to take any more Eclytus haematothorax!

7 ntd + 7 micros = those labelled 26.7.64. AWS.

Crabro clavipes ♀

Cryptinids 2 = Hemiteles gracilis? ♂, ntd ✗

Homocidus obscuripes ♀, not ntd.

Exochus pictus ♀, ant 28.

Campoplex leptogaster?, ♀, ant. 42.

Campoplegid 1 = Cymodusa antennata, ♀, ant 33.

Opius xanthogaster ♀, not ntd.

Minutiae 9: 7 ntd. Proctos 3. Chalcid 3. Cynipid 1, almost wingless!

26th July. Sunday

Another very nice warm day, after a dry calm night, with gentle, but cool, breeze (variable, but mainly SW) The forenoon mainly with hot sun, afternoon & evening cloudy. P.T.O. →

Spent all forenoon from 10 AM. till 1 P.M. in Drinnahilly wood & collected with sweeper & net off laurel, birch, &c & also did a little sweeping of sparse grass, &c, along sides of "the old track": most of the minute Hymenoptera taken in last place. In afternoon I did mail & in evening I got accumulated rubbish burnt in case there was rain tomorrow as forecast.

We have seen no Swift for last couple of days, but this may not mean they have departed: nevertheless it is very near the normal date of departure, usually ca 4th August.

26.7.1964: Sunday, cont.   Insects taken in
Drinnahilly wood, Newcastle, Co. DO. 10 A.M. till 1 P.M.

Dipteron: a ♂ of the Asilid, same as taken on 12.7.64, which alighted on my hand & was captured. A few days ago a ♀ lit on my hand but I only saw it as it departed. [Labelled on 4.2.65.

Sawfly Tenthredo balteata ♀ ✓

Crabro clavipes small ♀ taken, a much larger caught & released.

Ichneumon, large black & yellow ♂ = I. confusorius? face not all yellow!

I.   ♂

Cryptinae 3 = Leptocryptus   ♂,

Ctenisceid 1 =

Polyblastus westringi frequent: 2 ♀♀ in rushes.

Monoblastus palustris var. ericis: a few ♂♂ examined, but not so common as previously

Trematopygus? several =

Exochus 2 =

Promethes = Homocidus 6 =

Dyspetes praerogator ♂: first of the season seen!

Mesochorus   ♂

Campoplex   ♂

Campoplegids 9 =

Plectiscids 5

Ascogaster instabilis 1

Meteorus small ♀, same as taken here on 20th: p. 48 antea; not .23. = M. obfuscatus

Pygostolus sticticus large ♀, examined!

Pentapleura angustula, small ♀, reddish legs: not std.

Aspilota sp, including 2 minute ♂♂ =

Dacnusa adducta ♂ & D. elegantula ♂: neither std.

Ephedrus plagiator 2 ♂♂: not std.

Monoctonus caricis? 2 minute ♂♂: not std.

Proctos. 6, but only 1 ♀ std. =

Belytids. 6 =

Minute Proctos. Chalcids & Cynipids. cc. 44: these scattered on to a gummed card

Dipteron. ♂ of large Asilid! =

Hemipteron: 1 brachypterous example & I think common sp. =

---

no Swifts seen!
27th July. After a dry calm night we had a warm, soft, day, with hot sun early & after lunch once more, otherwise cloudy with at times fresh S.W. gusty wind & apparently drizzle over the hills & inland, but here only a mere trace blowing in the wind. Soon after breakfast & just after I got home Mr. & Mrs. & Miss Pitchford of Notts. walked in & announced they were in the Tullybrannigan caravan camp till 31st, having been last week at Portrush. They stayed talking till 1 PM. After dinner I

27.7.1964, cont.

spent the afternoon with sickle trimming the edges of the path & the sides of "the trickle" in the wuzzy. About 7.15 I went up to the Drinnahilly woods & swept here & there to upper road, but not far west of the Green Hill & took the following insects:

Drinnahilly wood, Newcastle, Co. DO, 7.30-8.30 P.M.
[3 labelled 4/2/65.

Homocidus obscuripes ♂.
Mesochorus small ♀.
Campoplegid ♀
Plectiscid 5

Apanteles ♂
Meteorus cf. *deceptor* ♀, ant 26.
Opius analis ♀, ant. 37.
Aspilota 2♀♀.
minute species 4 (2 Cynipid, 1 Chalcid, 1 Belytid) = *Pantoclis triarticulata*? ♀

28th July. A mainly cloudy very warm day, but hot at times. Dry with hill-fog & probably drizzle at times on the hills. In forenoon I weeded around *Juncus castaneus* by the wee burn in back garden; after dinner I cut back lawn & after this had large bonfire of 8 barrow loads of "hay" cut in wuzzy yesterday; after tea I got out the flame-gun & burnt weeds & trash outside front gate & then wrote letters to Kerney & Skillen & replied to a letter from a Mrs Higman, Newquay, Cornwall, asking if I could tell her where R. Ll. Praeger's, so called, "garden" was to be found on Errisbeg, Roundstone Co. Galway.

28.7.1964, cont.

I could only suggest it was above Roundstone, where he frequently went in his older days, to look at *Erica mediterranea* & when writing I told her the story of *Daboecia praegerae*, sent her a specimen in flower, & asked her to look out for it if she were again in Roundstone.

29th July. Still dry! A calm sultry warm day, with virtually no sun. Drizzle on the hills, heavy mist all day, but none here till 9 P.M. when a very fine light drizzle fell. In forenoon I tied up the new growth on the *Wisteria* & did odd jobs; after dinner I did some weeding & then helped Daisy pick strawberries & did not put back net on the W. plot as no more fruit worth picking on these now 3 years old plants; & later dug them up to dry for next bonfire. We had just finished the picking when Mr Liven & Joan arrived & stayed till almost 6.30 P.M. Mr Liven brought a pot with nice plant of *Arenaria montana* he had grown from seed. This is not a British plant & has 1/2 diam. very white flowers. He took away with him seed of the big green form of *Saxifraga rosacea* from Lough in the Galtee Mts. as well as seeds of *Dryas* to see if these were viable, but I don't think they are & I have never seen a seedling *Dryas* in the garden during over 50 years cultivation. In afternoon Daisy called to me that she had seen a flock of Swifts overhead, flying with House Martins, & I was just in time to see one Swift. These were evidently a party on migration, as I am sure our own Swifts left some days ago.

30th July. A very hot, mainly cloudy, day, after a dry calm night: no wind in forenoon, but light W. breeze in afternoon. In forenoon I had bonfire & got the old strawberry plants & other things burnt. Mr Caldwell & his wife called for me at 1.30 P.M. & drove me via Kilkeel to the shore of Carlingford Lough near Benagh House & I collected for an hour in two areas at or about high tide mark & took many Parasitica.

30.7.64 cont.

Shore of Carlingford Lough in estuary of the White Water 1½ miles E of Greencastle, Co Down 2.30 – 4.30 P.M.

Station 1 = shore near Benagh House, where I collected with Capt. Mc Dalton & Maureen Graham on   , & where the salt marsh we swept has since been almost entirely swept away. Shore, with Atriplex spp, Scirpus maritimus & bank above H.W.M.

St. 2. A very nice salt marsh ½ mile nearer the White Water Bridge where I had not collected before: this has a rich maritime flora with much Obione portulacoides, Statice, &c.

[12 labelled on 13/1/65.

Insects taken at 1: 2.30 – 3.30 P.M. Dull & windy!

Cryptines very common! About 30 in number, of which [illegible] mounted.

Exochus pictus, 2 ♂♂, ant. both 29.

Stenomacrus 2 = St. cf. rufer, 1 small ♀, ant. 22: only about half size of ♀ taken at Golders Hill Co. W. on 14.4.1954.

Mesochorus 1 =

Campoplegid 1 =

Rogas irregularis ♀, [illegible].   Arrogaster instabilis, ♀, ant. 24+, bitten off!

Apanteles 1 =

Colastes? 1 =

Opiids 3 = O. (O.) procerus, 3 ♂♂, ant. 40, 42, & 43: all very small.

Syncrasis fasciata Hal. ♀, ant. 17.

30.7.64 (1) cont.

White Water estuary, station 1, Co. Do. cont.

Aphaereta 8 =

Aspilota 3 =

Dacnusa [illegible] ♀, ant. bitten off short.

D. areolaris? 2

Praon   ♀, black antennae.

Aphidius spp. 6 =

Diapriids: Platymischus dilatatus ♂ & 5 others =

[no Belytids!]

Proctotrupoids: only 4 =

Minute Parasitica abundant: probably 60-70 in number & the majority Chalcids: these scattered on a gummed card!

Chalcid: 1 minute =

Diptera 3.

Hemipteron: 2 ex. of same species: associated with Atriplex =

Saw fly: 1 very small ♂ Tenthredo arcuata group.

59. 30.7.1964, cont.
Estuary of the White Water, and. Co. DO.

Taken at station 2.

Cryptinids 16 =

Apanteles 2 :

Tetrastichus micropterum ♀

Aphaereta 3 =

Aspilota 2

Dacnusa areolaris ♀

Aphidius 2

Micro-proctos, Chalcids, &c. 20-30 : these added to those from station No. 1.

Beetle 1

Dipteron 1 + micros.

31st July. A dry, mainly dull day, after a dry night; wind moderate but fresh from W. Spent most of day clearing up yesterday's catch of Parasitica! Cut front lawn in afternoon.

1st August. After a damp night, but no actual rainfall, with strong W. & W. wind, we had a similar day, but in forenoon the light drizzle blowing the wind did not prevent me clearing up front border. After dinner the drizzle increased & I did no more work in the garden. During a dry spell about 4 P.M. I had half an hour walk in Donard Park & home by the Green Hill. In evening Francis Mitchell & family paid us a visit from where they are staying near The Bloody Bridge.

2nd August 1964 Sunday. 60

A dull dry windy day with some sun in mid afternoon; wind NW; after some very slight drizzle & strong NW wind during night.
I did not go out till 2 P.M. & then spent afternoon in Drinnahilly woods collecting. Returned home at 5.15 P.M. Took the following insects:—

Woods on N. slope of Drinnahilly (as usual), Newcastle, Co. Down, 2.30-5.0 P.M.
[Eclytus labelled on 3rd August! 4 more labelled on 15.1.65.

Stenichneumon ♂ on Sycamore.

Cryptinids 4

Polyblastus varitarsus ♂, ♀ examined, carrying larvae.

[No Monoblastus palustris var. Lewisii seen today!]

Homocidus spp. 4 = H. longiventris, large ♂, and ♀♀.

Eclytus haematothorax ♂, ant. 36. on same locality as 2 ♂♂ taken on 8th & 21st July. {Sent to J.F. Perkins for B.M. coll. with letter of 12th Sept. 1964.

Mesochorus ♀

Cymodusa ♂♂ & ♀♀ frequent

& 2 other Campoplegids

Plectiscids 4

Ascogaster 1 = A. instabilis ♂, ant. 34.

Euphorus 1 minute =

Aspilota ♀

Ephedrus lacertosus ♀ & Aphidius ♀

Bethylids 6

Small pallid Dipteron =

61
2.8.64, cont. Drinnahilly wood, Co DO, cont.

Proctotrupoids 4

micro-pterous, Chalcids & Cynipids, ca. 35-40.

Dolerus aeneus, 2nd brood, fresh ♂
Cratria
Beetle: Chrysomela 1 =
Diptera: minute 1

Took 2 of the Apanteles cocoons on underside of laurel leaves; from which emerged 2 ♀♀ of Hemiteles areator! on 5th & 7th Aug. 1964 respectively. — These cocoons are undoubtedly (? A.W.S. [illegible]) made by larvae of Pygostolus sticticus, like those from others, similar. This Braconid has been bred. A.W.S.

3rd August. A warm mainly sunny day after a dry windy night. Wind fresh from NW till nearly tea time, but absolutely calm by 9 P.M. Spent most of forenoon clearing part of the 2nd loop of the wee burn (at the seat) where Lotus uliginosus tends to swamp everything & has trailing branches 8 to 10 feet in length, but only got a little done. After dinner I went over both lawns with cans of 4-50 selective weed-killer to eradicate buttercup, &c. which I had missed earlier in the season. After aft. tea with Daisy's help we removed & folded the strawberry nets for the season & picked the last strawberries & later I removed the frames. After tea I weeded part of path along Anderson's hedge above the two strawberry plots.

62

4th August 1964.
A very warm day! "The warmest of the year!" After a calm & dry night. During most of day we had an on-shore (E.) cool breeze, but sun intense & continuous till tea time, then dull, with sign of approaching depression from W promised for tomorrow. Spent forenoon burning yesterday's "clearings", did not go out in afternoon, as too hot, & after tea spent half an hour sweeping for insects in meggy, &c, & then started to dig in compost to the W. strawberry plot from which the old 3-year plants were removed & burnt a few days ago. This plot is riddled with the roots from the row of Scottish willows above it & one (Salix nigricans) had roots reaching as far as the path below plot & one was over 12 ft. in length. Last flower on Orange Lily withered, which commenced to flower in last fortnight of June. Many young Gerris bugs on pond, as well as the two old inhabitants.

Insects swept in meggy, off willows, birch, &c.

21 Tullybrannigan Road, Newcastle DO. 6.30-7.0 P.M.
[6 labelled 7.1.65:

Brown caddis fly ? =
Hemiteles ♀
Glypta rostrata, a nicely coloured ♀, ant. 40.
Homocidus obscuripes!
Stenomacrus small ♀.
Gnathoniella egregia 2 ♀♀, ant. both 17.

Campoplegid 1
Centeter lucidator 5 ♂♂
Opius cressus! + 5 others, one large! = O. (B) [illegible], small ♂, ant. 40, var. [illegible]

Pentapleura pumilio 14, only 1 ♂; small ♀♀ have dark legs, larger ± red.
Phaenocarpa canaliculata ♀, ant. 28.

4.8.'64, cont.

Tullybrannigan, Newcastle, Co. DO., cont.

Aspilota spp. 8

Dacnusa cyclops 2, D. areolaris, D. laevipectus & D. pubescens (?) & few.
Chasmusa conjungens 2 ♂♂.
Monoctonus caricis ♂.   Aphidius 1 ♀.
Diapriids 2 spp. =

Proctotrupids 2 ♀♀
Chalcids: Torymid ♀ on leaf of Spanish Chestnut, not Oak!
= & 3 others std. 2 minute, & large ♂ :

Microprocta, Chalcids, Cynipids, &c. 20-25.

5th August. After a dry night & morning, clouds came up from S. about 10 AM & rain commenced about noon & continued till evening, but never very heavy & very nice for garden, but much more is needed.
Wind very light, mainly S., but at times variable or nil. During a dry spell at 4 PM I dug the upper five plants of Home Guard in row next the Dahlias in middle plot, these being the earliest planted this year, on 19th April. Considering dry weather quite an average crop.
From one of the cocoons found on laurel, Drinnahilly woods, on 2nd Aug. there emerged today a female hyperparasite, Hemiteles , the cocoon is almost certainly made by a larva of Rogastolus electus, as from similar cocoons I have recently bred ♀♀ of the Braconid.

6th August 1964.

Following rain all night, we had sun & cloud & very light SW breeze & cooler than lately. Garden looking fresher.
In forenoon I did various small jobs & then completed digging first row of Potatoes planted on 29th April & partly dug yesterday evening. These were Home Guard & the best crop came from Nos. 2 & 3 at lower end of row, which were grown from 1/3 sections of a very large tuber. No. 1 was not quite so good & being at end of row probably did not get as big a supply of compost. The row of 13 plants produced a bucket & a half of nice spuds. Following dinner I then dug the next row, which were "Ulster Chieftain" & with the lowest plant of 3rd row got a very full bucket of spuds which weighed 25 lbs. approx.
After aft. tea I was about to go up to the Drinnahilly woods, when a shower came down on us from the hills & lasted 10 minutes & wet everything. Nevertheless when it was over I set out with net & sweeper & met another 5 minutes shower as I reached the woods. Everything very wet, but I stopped at the clump of laurels on which I have already taken 3 ♂♂ of Eclytus haematothorax in recent weeks & found numerous Parasitica on it in spite of the wet leaves. I had not been long there before I caught my fourth ♂ E. haematothorax & so I stayed there on chance of taking more & a ♀, but no luck. However I took the following: — At Laurel bush, Drinnahilly wood, Newcastle Co. DO.
3.30 till 5.0 P.M.
[12 labelled on 2.10.'64. 3 on 7.1.1965.]

Mevesia arguta ♀, ant 21.

Phaeogenes ♂ = Phaeogenes osculator ♂, ant. 27.

Cryptinids ♂, 3 ♀♀ = Microcryptus? of gravipes?? but no white band on ant.; ant. 22.

Cteniscid 1 = C. cf. umbellatarum Holmgr. ♂, ant. 27.

Exochus pictus ♂, ant. 30.

Promethes 1 =

6.8.1964, cont.

Drinnahilly Woods, DO., cont. 3.30 – 5.0 PM.

Homocidus simulans, large ♂, ant. 23

Ξ

Polyblastus westringi, fagged : ♂, 2♀♀ carrying larvae in rushes!

Dyspetes praerogator 2♂♂, 1♀.

Orthocentrus frontator ♀, ant. 28.

Eclytus hamalothorax ♂, ant. 38: the 4th ♂ taken @ same tunnel! {others taken on 8/7, 24/7, 2/8, 1964.}

Angitia? ♂ =

Cymodusa 3 = C. antennator ♂ ant. 39.

Plectiscids 6 = Acroblaptica dentifer ♂, ant. 26.

Aspilota large ♀ = A. nervosa ♀, ant. 24.

Belytid 1 = Leptorhaptus cf. monilicornis ♂?: but does not agree too well! (Kies- Townes?)

Proctotrupid 3 = Cryptoserphus aculeator ♂ I suppose, though I would call front margin of pronotum yellowish & penultimate ant. segment by no means 3 times as long as wide, — as in Nixon's key.

Phaenoserphus viator? ♀. Phaenoserphus calcar ♂.

Chalcid 1

7th August. After a dry cloudy & calm night, we had a dry day (but for a slight shower at 11 AM.), alternately humid & warm, with occasional hot sun, & cold & damp with fresh on-shore (E) breeze. Black clouds suggesting thunder seen to west, but none came here. Spent day digging the remainder of the Ulster Chieftain potatoes in main plot above the raspberries & got two further buckets of spuds, though many are on the small side, a fair crop! Daisy spent much time clearing up the raspberries & removing the old canes.

8th August 1964. A nice day spoiled by heavy showers in afternoon after a dry night. Wind light & variable, mainly SW–W.

In forenoon I did various clearing up jobs in back garden, especially in the NW corner near the first pool, where Anemone japonica had caused some trouble. After the first heavy shower, just as I was about to start a bonfire at 2 PM. I dug two rows of Dutch Record potatoes in upper plot between the two plots of strawberries & got a very full bucket of nice spuds from the eleven plants (5 + 6 in the two W. rows!) before afternoon tea. Later I dug the two E. rows & got nearly a bucket full from 10 plants. The plants in E. row grown from a large spud cut with 3 were only moderate as regards a crop: two were average & one poor! Afterwards I gathered the stones off path I had thrown out of the potato plot & dumped them in one of the metal tubs at SE. angle of the site of old greenhouse. I am filling the two tubs which formerly caught the rain water off the greenhouse roof. Finally I scooped a barrow full of sludge out of the upper reservoir in the wee burn & found the eel still there — about a foot or more in length! Went into house at 8 PM.!

9th August. A lovely fresh & cool & sunny early morning, after a dry night but at 1.15 PM a heavy shower fell & later in afternoon several smaller showers, while many seen in distance which passed us by. Wind a fresh W–NW breeze, falling light & variable towards evening. At times very hot sun.

Sunday. In forenoon I went up the woods to the forestry bridge over the Tullybrannigan Burn & out onto Carnaghead as far as the Bracken at foot of Slieve na Brock, then back across the Burn at corner of the plantation & along S. side of boundary wall to the iron gate & home through Drinnahilly woods.

Found the moors very dry in spite of recent rain & the only plants of any interest seen were Pinguicula lusitanica (1) in flower & clumps of the [illegible]

9.8.1964: Sunday: cont

Drinnahilly woods & Curraghard, Co. DO, cont.

& the green forms of Erica tetralix growing within 2 feet of each other & looking conspicuously distinct. On outward journey stopped at my now favourite laurel & collected about 30 Parasitica with sucker & on return journey picked up two or three more & some along the upper road 10 A.M. till 1 P.M.

Insects taken with sucker in Drinnahilly wood, Newcastle, Co. Down (mostly off laurel, at 10.15 till 10.30 A.M.). [Labelled 6.1.1965.

Acoplus defuscator 1♂, 1♀; off Sycamore on upper road; ant. ♀ 35, ♂ bitten off.

Cryptinid 3 Phygadeuonid, small ♀, ant. 21: ? same sp. as taken several times later.

Lissonota bellator ♂

Proctha 1

Homocidus biguttatus ♂

Polyblastus westringi: common & in spite of avoiding it, I had 20♂♂ & 6♀♀ in sucker, all the latter carrying larvae, a few of which got scraped off in the sucker & became attached, etc., to other insects.

Mesoleiid? 1 = Mesoleius ? near modestus Hlgr., but pleura very strongly punctate-rugose! ♂ ant. 28.}

Mesochorus with flying orbital stripe } ♀ ? Ant. 37. But tergite 2-4 elongate!

Cymodusa 1♂, 1♀; others seen on laurel

Angitia? 1♂

Aperileptus ♂ + 1 other Plectiscid =

Bathythrix 2 Meteorus albiditarsis ♀, ant. 36+!

Proct. 1

Chalcids 2, the large ♀ caught by hand as it hovered over Rhododendron ponticum leaf =

The small one =

9.8.1964, cont.

I noted as I passed that only Diptera seen sitting on the leaves of the little birch bush by the upper road on which I have seen such numbers of Parasitica & concluded that my theory of honey dew on its foliage being the attraction, but that the very heavy showers which fell recently had washed it clean.

When coming down from the iron gate, on return journey, to the new forestry road I noted Pinguicula lusitanica in flower in three places on E. side of the road within 200 short paces of the angle of the road; the uppermost being about 19 paces above the corrugated-iron forestry hut which is (temporarily?) placed there. Lower down the road I counted 8 flowers on the P. lusitanica in its well known locality on E. side & a few yards above the old part of the plantation.

10th August. After a calm, cloudy, but dry night, we had a calm, mainly cloudy & dry day, with a few very warm sunbursts in afternoon. Very black clouds seen in all directions, but no rain fell here.

In forenoon, having trimmed path in the wuzzy with sickle, I cut grass on paths, &c, with machine. In afternoon I had a bonfire & got rubbish & some potato tops burnt. After tea I went up into the wood about 6.30 P.M. & returned at 9.10 P.M. Collected by sweeping & "picking" off laurel, birch, willow (near shepherd's old cottage), &c, but most grass, &c, in open too wet to sweep. In morning's post I received a letter from E. S. A. Baynes & with it an Ich. bred from cocoon of Burnet-Moth (Zygaena filipendulae) taken at Ballinalackan, Co. Clare on 26th July 1964, which proves to be a ♂ Gambrus & appears to be ?sp. to G. ornatus, but has abdomen much more heavily sculptured than ♀! matt, no white mark on tergite 7, & mainly black legs! A.W.S. 3/1/1965. Antennae 25-segmented.

For list see next page.

10.8.1964. cont.

Insects taken in Drinnahilly wood, Newcastle, Co. DO. 7.0-8.30 P.M.
[10 labelled 4.1.1965

Aoplus defraudator ♂, on Sycamore

Cryptinids 4 =

must be more to be mounted! AWS 4.1.1965.

Pimpla   red ♀, small.

Ctenisciids 2

Promethes 1 } may be interesting!
Homocidus 1 }

Polyblastus westringi frequent: 1♂, 4 ♀♀ all carrying larvae in sucker. ♂, ant. 28 mtd.

[Monoblastus palustris v. laevis. None seen at all recently!]

Polyblastus? 1 =

Gen. et sp.? Very slender, red-marked abdomen, swept off birch on upper road!
= near Triclistus, but gen. et sp.? ♂, ant. 23. =

Gen et sp? No areolet, black polished, small species! = small ♂ of Polyblastus westringi ant. 28

Mesoleptus prosoleucus ♂, ant. 36.

Orthocentrus   small ♀, broad areolet! =

O. sp.?   2 ♂♂

Stenomacrus? 1 =

Mesochorus 1

Cymodusa   ♀, as before: others seen & examined.

Plectiscids 11

Colastes braconius ♀, ant. 27.   Rhyssalus clavator ♂, ant. 30.

Oncophanes lanceolator, ♀, ant. 21.

Opiinids   1

10.8.1964. cont.

Drinnahilly wood, DO., cont.

Aspilota spp. 7 =

Dacnusa ♂ like laevipectus, but pale coxae & parallel-sided stigma: no sternauli!

Belytids 6 =

Proctotrupids 6

Chalcid 1 large ♂ = Pteromalid?

micro-proctos, Chalcids, Cynipids, &c.: about 40 & mostly Chalcids off Sycamore, but some off laurel, birch, willow, &c.

11th August. Not a cloud in sky, except far to W., all day, after a very heavy dew — almost like a white frost. Very hot sun, but tempered by a cool N or E breeze. Kept bonfire going all day & got a lot of rubbish burnt & erected wire on posts of strawberry rows to help dry potato tops & later the onions & shallots for Daisy. In afternoon cut both front & back lawns. Daisy loosened up the shallots (a 2nd time) & the onions: the best grown from sets planted on

12th August 1964. A very hot calm day, after a dry & warm night, but sun did not get out till mid afternoon. Started bonfire as soon as I went out about 10.30 AM. & kept it up all day & by evening had got all the potato tops (already dug!) burnt. Then started to dig the "Blues" in plot W. of raspberries, which by evening 1½ rows had yielded about 3 stone of nice-sized spuds & seed. Also did some odd bits of pruning & weeding.

13th August. After a dry, calm, & misty night we had a wettish early forenoon, due to a sea-mist & NE draught hitting the warm damp air, but by 11 AM. it was dry & sun came out, very warm, about 3 P.M. Later it became cloudy. Wrote & posted letter to R.C. Faris & then made bonfire & "organized" potato-storage in garage. After dinner did nothing till aft. tea was over. Then dug remainder of the Blue potatoes in plot W. of the raspberries (only 7 plants!) & got 2/3 of a bucket full.
Then severely pruned the big white Cistus bush by the burn path & after tea cleared up the mess, did some weeding. Except the potato tops dug yesterday all the earlier dug tops were burnt.

14th August. Another warm & dry day after a dry & calm night. Light NE breeze & much hot sun during middle part of the day. Spent most of day burning garden rubbish, prunings, &c, but in afternoon I dug the first row of Kerr's Pink potatoes E. of raspberries & got a full bucket of spuds, but a big crop not expected & these were only put in to improve the ground, which had held bulbs for some years. After tea pruned the young Spanish Chestnut near the walk.

15th August. A dry day, but sea-fog coming inshore with light breeze from NE, cool; hot sun at times, but air fresh & never oppressive. Hot bonfire & dug ½ of second row of Kerr's Pink potatoes E. of raspberries in forenoon. After dinner I went up into Drinnahilly woods at 2.30 & returned at 5.30 P.M. Collected in various places up to the shepherd's old cottage & right side of road; returned by upper road. Took the following Parasitica

15.8.1964, cont.

Insects taken in wood, Drinnahilly, Newcastle, Co. DO: 2.30 : 5.15 P.M.

Exalro clavipes 2 (1 small, 1 large) Myrmica ruginodis ♀, on Laurel!
Dryinid ♀ =
Barichneumon locutor ♀
Phaeogenes ♂
Epitomus ♂, small black!
Cryptinids 6, including Pezomachus all red ♀; 3 not d. =

Pimpla flavicoxis?, small ♂.
Stenomid 2 =
Polyblastus varitarsus, 1 ♂, 2 ♀♀ carrying larvae, others seen!
Promethes cognatus ♀ & Homocidus pectoratorius ♂ & H. biguttatus ♀.
Stenomacrus or Orthocentrus? 2 small ♂♂ =
Gen. et sp.? ♀ like Zygopalus praerogator, but looks queer =
Mesoleiid? 1 =
Campoplegids 8 = Cymodusa (the usual species!) 4 ♂♂, 1 ♀; Angitia? 2
Gen. et sp.? ♀ =
Plectiscids 8, including Hemiphanes ♂; Aperileptus, Helictes (♂) & Plectiscus.

Bracon ♀
Rogas ♂
Blacus ♂
Macrocentrus ♀
Opius xanthogaster ♀
Aspilota 6

15.8.64, cont   Drinnahilly wood, Co DO., cont

Dacnusa spp. only six in number of which 5 are D. divaricata & one =

Aphidiids: only 3 in number of which 2 are Monoctonus cerasi 1♂ 1♀, both minute & Ephedrus lacertosus

Diapriid 1 =

Belytids 6 =

Proctotrupoids 3.

Chalcids 5 std. =

Microproctos probably 70-80: Proctos: Chalcids: Cynipids

Mystery!

Hemipteron 1

Beetle 1

16th Aug 1964. Sunday.

A dull misty day with NE breeze, after a dry misty calm night, with steadily falling glass as depression approaches from SW, but no rain till after tea, 6.30 P.M., which commenced just as I went out to sweep the back garden. I did, however, get two sweeps before vegetation got too wet & the insects taken are listed on opposite page.

Afternoon I reduced "cover" in front of the Killarney Fern now under bench at S. end of greenhouse to allow more air, as it is sending up fresh fronds & seems to be recovering after removal from its former cave & transfer from the old greenhouse. I also finished digging the second row of Kerrs Pink potatoes E of the raspberries. In afternoon fed snails.

16.8.1964, cont.

Insects swept in back garden, 21 Tullybranigan Rd, Newcastle, Co Down. 6.30-6.40 PM.

Cratichneumon rufipes ♀

Hemiteles sp. ♂. ant. 21.

Pezomachus fasciatus ♀, ant. 21.

Orthocentrus asper, ♂, ant. 24.

Apanteles lateralis ♂, ~~[illegible]~~

Blacus ruficornis, 2 ♂♂, ant both 21.

B. diversicornis, ♀, ant. 20.

Aspilota 3 = A. furcicornis ♀, ant. 16. A. cynipidis, dark ♀, ant. 20. A. (S) sp.? ♂, ant. 21. {strong neuration!}

Procto Platygaster 1

Ashmeadopria sp. No 3 ♂.

Chalcids 4

Cynipid 1 --

MYSTERY. On opening the large store box in which I have put, temporarily, the recently mounted insects, which include those bred from various cocoons found in the Drinnahilly wood, on 15th August, I found a ♀ Leptocryptus, ant. 24, running about the box! Now, the box had not been opened for at least two days & was last opened beneath my table lamp in order to put in the insects mounted that evening. There was no cocoon in the box which had not already yielded its contents; there was no cocoon large enough to have held more than one insect"! Therefore either this ♀ Leptocryptus must have either dropped into the open box from the lamp just before I closed it, though I did not see it, or it must have emerged from some of the mtd. insects, all of which had been killed with ether & then stored in a "Laurel-tube" for a couple of days or more. I assume the former is the more likely explanation & will label it "Found in store-box!" & leave it at that.

17th August 1964.

After a very wet night, with heavy fall in glass, but only light SE wind, we had very heavy rain till about 1.30 P.M., then a ± dry spell, with scarcely any wind, then heavy rain once more & then only light rain or drizzle till bed-time & light NE wind. I spent most of day sorting out & looking over some of my dried sedges collected in Scotland in 1947–1954.

Painted Lady Butterfly seen at c. 11 A.M. near Little Rose, Tullybranigan Rd.

18th August. After another wet night, with wind rising & veering via S. to W. & finally NW. as glass rose, we had drizzle or rain off & on all day, but ± dry, with brief sunny intervals during afternoon, during which time I dug the first planted row of potatoes (Kerr's Pink) on site of the old greenhouse & got a huge crop of mainly large spuds: this row planted on 28th April.

19th August. After a considerable drop in temperature & a rather windy (N.) night, we had a cool mainly sunny day, with showers about, but all we got were a few skiffs & odd sprinkles in forenoon, & the afternoon was almost all sunny. Wind N. gusty in early part of the day, falling dead calm by 8 P.M. George & family arrived at noon, bringing with them Dorothy's cousin May Palmer (née Beattie), the widow of a Dr Palmer of Dublin. They left at 8.30 to put May Palmer on Belfast–Liverpool boat en route for London. She & her daughter & the husband had been touring in west of Ireland & they went home on night of 17th. Did no work in garden! Painted Lady Butterfly: 19th not 18th.

20th August. After a cold, dry & calm night, almost with ground frost, we had a cool day, except during sunny spells, with E breeze in forenoon, W. in afternoon & finally NE, then calm, with ground frost forecast for N. England & sheltered places in N. Ireland. When wind changed to W. about 1 P.M. a shower or series of showers followed the last about 5.30 P.M. In forenoon I dug the row of "Blue" potatoes on site of old greenhouse & got 1½ buckets full & in afternoon I dug the 3rd row, Golden Wonder, & only got one full bucketfull.

21st. August 1964.

A fine & dry day with much sun & some clouds, after another cold night with heavy dew; wind variable & light, but mostly on-shore (E.). In forenoon I got a bonfire started & kept it going till 8 P.M. & got many potato tops & other rubbish burnt. Mr Eager of Royal Dublin Soc. Library, called for a chat in forenoon. He has just brought out a book — A bibliography of Irish bibliographies — or some such title, a praiseworthy effort to provide a background for young university students! In afternoon I picked blackberries & trimmed the Whins in the wuzzy & kept an eye on the bonfire. After tea I cut grass in the wuzzy & watched bonfire.

22nd August. A fine day here, after some slight rain during the night, with strong SW wind in forenoon, gradually falling to calm by bed time. Warmer than last few days & when out sun very warm. In forenoon I first attended to the Wistaria & fastened up its new growth & then cut front & back lawns, the first before, the latter after, dinner. Between afternoon tea & real tea I dug the western of two rows of Dutch record potatoes, planted on 20th May, & got 1½ buckets of nice medium-sized spuds from the twelve plants in the row.

23rd August. After a dry night, as often happens, drizzle commenced at ten minutes past 8 A.M. & continued off & on till bed time, with SW wind, fresh in forenoon falling ± calm in evening; during day temperature rose, so that by 7 P.M., when I went up to Drinnahilly wood, it was very close, muggy, & warm, with only very slight attempt at drizzle. I only went as far as my Laurel bush, & stayed there collecting any Parasitica which came along & took the following with net or sucker: — Sunday.

All off the Laurel bush: Drinnahilly wood, Newcastle, Do.; 7.0–7.30 P.M.

Ichneumon ↗

Exochus: lost, but see specimen taken on 30.8.64, p.79 →

23.8.'64, cont.

Drinnahilly wood, DO., 7.0–7.30 P.M., cont.

Polyblastus westringi 2♂♂, 4♀♀ (all ♀ carrying larvae!): none mtd.
Astiphromma strenuum ♀, ant. 39.
Bracon variegatus Marshall, ♀, ant. 30.

24th August. A very warm, close, day with strong SW wind after a dry & very windy night: much hot sun. In forenoon dug the second row of Dutch Record potatoes (planted on 10th May) & got a full bucket of nice spuds. After dinner I started a bonfire & by 7 P.M. I had got a lot of potato haulms & other refuse burnt. At 7 P.M. I went up the woods, but just as I got to my laurel bank it commenced to drip & so after about 20 minutes I gave up & came home. During that time I caught the following insects.

Drinnahilly woods, Newcastle, Co. Down. 7.30–8.0 P.M.

Ichneumon sp.? ♂: perhaps gracilentus!
Hemiteles? ♂: not mtd.
Phygadeuontid ♀, ant. 21 — 4 similar ♀♀ taken on 30.8.64
Pimpla flavicoxis ♂: not mtd.
Ctenicid 1 = Ctenicus cf. umbellatarum ♂, ant. 27
Dyspetes praerogator ♂: not mtd.
Promethes cognatus ♀: not mtd.
Polyblastus westringi 2♂♂, 1♀ carrying larvae none mtd.
Plectiscid? ♀ = Pantisarthrus sp.? ♀, ant. 21.
Opius stenops ♀, & ant. 24.
Aspilota nemoralis ♀, ant. 18.
Monoctonus caricis ♂, with [illegible] [illegible]. not mtd.

Proctos 3: none mtd.
Chalcids 6: 2 only mtd. =
Cynipids 2: not mtd.
Beetle.

25th Aug. 1964.

A dry & very hot day. Dug the last 3 rows of potatoes (Golden Wonder) in upper plot next peas, planted 11th May.
In evening started to re-write my notes on Salix hibernica, S. phylicifolia & S. nigricans.

26th Aug. Hot & close with drizzle on hills & much rain inland, but we got none. Had bonfire & got more potato-tops burnt. Gathered onions & shallots & dumped them on wire frame where I have been drying potato-tops & later raked & cleaned the onion-shallot plot △ above the plastic pond; these planted between 26th March & 24th April. Finished re-writing notes on Salix hibernica.

27th Aug. After a warm, calm, & dry night, a very hot sunny forenoon, during which I made another bonfire & re-raked onion plot, but afternoon 'spoiled' by a deluge between 2-30 & 3.30 P.M. & no work in garden possible.
Posted in morning my MS. on Salix hibernica to Miss Scannell of Nat. Mus., Dublin.

28th Aug. After a rather cold dry night, we had a fine sunny forenoon, but like yesterday the afternoon was spoiled by a heavy shower between 2 & 2.30 P.M. & this time with thunder, but we only got the edge of the storm & the main part went over Hilltown & N.W. of us. Spent forenoon at bonfire, weeding & scuffling in back garden. Wrote letters & fed snails in afternoon.

29th Aug. A very fine sunny day, with cool NW wind, fresh during night & during forenoon, but dying away towards evening, as large anticyclone approaches from W. & barograph rises all day. Spent most of day getting bonfire going, digging potato plot where first-dug-potatoes already removed. During afternoon I cut grass in [illegible]. Barry started to get shallots "peeled" & brought into house. In bright sun at 11 A.M. took photos of berries, ♀; on Rhamnus frangula & Alnus in front.

30th August 1964. Sunday.

An all sunny, perfect, Sept. day, but on shore (E) breeze kept afternoon cool. In forenoon I went up to Drinnahilly wood & collected by sweeping edge of road at first & later chiefly off tansy, sycamore, birch, &c. far as the shepherd's old cottage, where I went to sweep the 2 willows, but off these last I did not get a single hymenopteron, for the rest see list below:— [27 mtd. + three labelled on 28/12/64.]

In afternoon I spent some time weeding in back garden & a bit. Here I caught a black & yellow, ant. 42 ♂ Ichneumon extensorius & a ♀

Campoplegid = Cnidelasta sp. ♀, ant. 31.

Insects taken in Drinnahilly wood, Newcastle, Co. Down 11.30–12.30 noon.

Phaeogenid ♂ = Phaeogenes sp. osculator? : ant 28.

Cryptinids 11 including Hemiteles areator ♀ (not mtd.); only 3 mtd =

Phygadeuontid ♀, ant. 21 = – 6 similar ♀ taken on 24.8.64! Hemiteles? ♂, ant. 20 =

Leptocryptus sp. aereus, very small ♀, ca. 2.8 mm (+ terebra 3.2 mm.); ant. 22.

Pimpla elegans ♀ off birch & P. flavicoxis 2 small ♂♂; none mtd.

Poly~~sphincta~~ sp.? ♂, ant. 23. = Acrodactyla nodida?

Exetastes: same as taken here on 23rd = E. [illegible], large ♂, ant. bitten off short.

Promethes pulchellus 2♂♂ & P. laticarpus 1♂; none mtd.

Dyspetes praerogator ♂; not mtd.

Polyblastus varitarsus 4♂♂, 1♀ only; larvae! others seen, none mtd.

Stenomacrus ventralis 1♂, bred? not mtd.

Ophion luteus? ♂, off birch: ant. 49.

Campoplegids 2 = Olesicampe fulviventris ♂, ant. 38.

Rhorus (Monoblastus) [illegible], ♂, ant. bitten off.

Plectiscids 3 only, 1 mtd. = Helictes sp. ♂, ant. 26.

Plectiscus sp. ♂, ant. stout, 21 seg.

Euphorus similis ♂, ant. 16.

Opius [illegible] 1 ♂, ant 23.

Aspilota 3 = [illegible], [illegible] ♀, ant. 30; also a small [illegible] ♀, with 22 seg. ant. & red legs!;

& a small & 3rd minute ♀, with only 17 seg. ant., & red legs!, but all 3 seem to me to be the species.

Dacnusa [illegible] ♀, ant. 24; var. with apex of hind tibiae fuscous.

D. (G.) [illegible] ♀; not mtd.

Aphidius ephippium 1 minute ♀, the only Aphidiid [illegible]! ant. 14.

Proctos: numerous & mostly micros! of which 5 only mtd. = Phaenoserphus viator ♂.

Cryptoserphus aculeator? ♀ but propodeum does not agree with that of ♀ named by Nixon from Tollymore Park, (1) 12.5 1961.

Holacolus Kieffer? sp. 2 minute winged ♀♀, mtd. on same card.

Lygocerus? Small wingless, testaceous ♀.

Belytids. only 3 = Leptorhaptus politus ♀ & Cinetus piceus 2 ♀♀.

Chalcids abundant & mostly minute! Only one minute wingless, green & red, with large head, mtd.

Cynipids: only one "large", the rest minute! none mtd.

31st August. Another all sunny day as anticyclone persists, after a heavy dew (white or ground frost in central England & again forecast for same) during night. In forenoon gathered, packed & posted the following samples of four willows to Mr Colville in Dundee:—

1. Salix hibernica from The Glenaan, near Kinlough, Co. Leitrim (planted by the burn!)
2. " " " N. side of Ben Bulben, Co. Sligo.
3. " phylicifolia from Lawers, mid Perth.
4. " nigricans from burn on SE slope of Ben Lawers.

In afternoon had bonfire & got last of potato-tops (so far dry!) burnt & did some weeding & digging.

81 1st Sept. 1964. Another fine & sunny day with S.E. breeze, fresh in forenoon but falling light in afternoon. Barograph commenced to fall in afternoon as the anticyclone moves E. over the North Sea. Cut front lawn & trimmed the Pyracantha in forenoon & in afternoon cut back lawn, had bonfire & did various jobs in back garden.

2nd Sept. After a misty start & a few drops of rain after breakfast, we had a warm & mainly sunny day with light S.E. breeze, after a dry misty night. Spent forenoon trimming Cydonia at angle of front lawn in front of dining room window & other jobs in front garden: in afternoon dug H. experimental & dug plot where potatoes were in upper plot next pear. Mr Cregan from Portadown district called in afternoon to see Daisy. In evening finished sorting out about 300 transparencies taken in garden since 1958 (inclusive!) to send Mr Colville & H.E. Green.

3rd Sept. One of the best days yet after a misty morning: a S.-shore (E) breeze never more than gentle & pleasantly cool. In forenoon I pruned the Cydonia "Rowallane Seedling" which has about 16-20 fruits on it, while the other which had hundreds of flowers appears to have no fruit, though much attended by honey bees when in flower. Also trimmed the Viburnum carlesii though this should have been done earlier as flower buds now formed.

In afternoon I collected parasites near Donard Lodge ruins – chiefly between the ruins & the Glen River on the corn-field (towards the Tunnel), but found collecting disappointing, though thousands of micro-Proctos, Chalcids, &c. In evening Mrs Dodds, Mary & Sheila called from Ballymoney.

List of insects swept around Donard Lodge, Newcastle, Co Down.

2.30 – 4.30 P.M.
[42 mtd. & these labelled on 17.12.64.]

Lasius niger ♀, sitting on wide leaf, fully winged & all alone!

Epeolus [illegible] 2♀♀ small [illegible]! The only [illegible]

Cryptinae: only 2: 1♂, 1♀ Hemiteles spp.: Hemiteles ♀, ant. 23: the only mtd.

Acrodactyla degener 1♂, ant. X; 1♀, ant. 22.

3.9.1964, cont. Donard Lodge, Newcastle, DO., cont. 82.

Promethes pulchellus & [illegible] 2♂♂ of each.

Homocidus pallipes 1 very highly coloured ♂, ant. 22.

[illegible] [illegible] 2♂♂, not kept.

Eclytus fontinalis ♀, ant. 27.

Angitia? ♂: the only Campoplegid taken. Not mtd.

Stenomacrus [illegible] of [illegible] ♀, ant. 27.

St. ventralis 1 small highly coloured ♂ ant. 22.

St. [illegible] 2♂♂ ant. 21-22.

Picrostigeus recticauda, small ♀, ant. 22.

Plectiscid. 3: Plectiscus sp. 1♂ ant. 21, 2♀♀, ant. X & 21: I think all same species!

Bracon brevicapitatus mihi, ♀, ant. 33: possibly only a race of fulvipes, with black head & hind coxae! AWS. 1964.

Dacnusa [illegible] ♀: not mtd.

Chorebus lunulata ♂: not mtd.

Opius ? = O. lunulatus m. 2♀♀, ant. 26-27.

O. stenops 3♂♂, ant. 23, 23, 24; 1♀, ant. 22.

O. irregularis, small ♀, ant. bitten off.

Alysia contracta 1♂, 1♀

Phaenocarpa ruficeps ♀, red head.

Aspilota spp. 4, none mtd.

Dacnusa areolaris, longiradialis (2), elegantula (4), melanocera (1): none mtd.

Chorebus congregus, dark ♀, a funny place to get one! Ant. 20.

Ephedrus validus common. Eph. plagiator 1♂ [No Aphidiines seen!]

Diapriid 9: 5 mtd. {Ashmeadopria ♂ of sp. 1. Basalys ♂ of sp. 5? Paramesius brachypterus = sp. 3. ♀.
Paramesius sp. 12: 2♂♂.

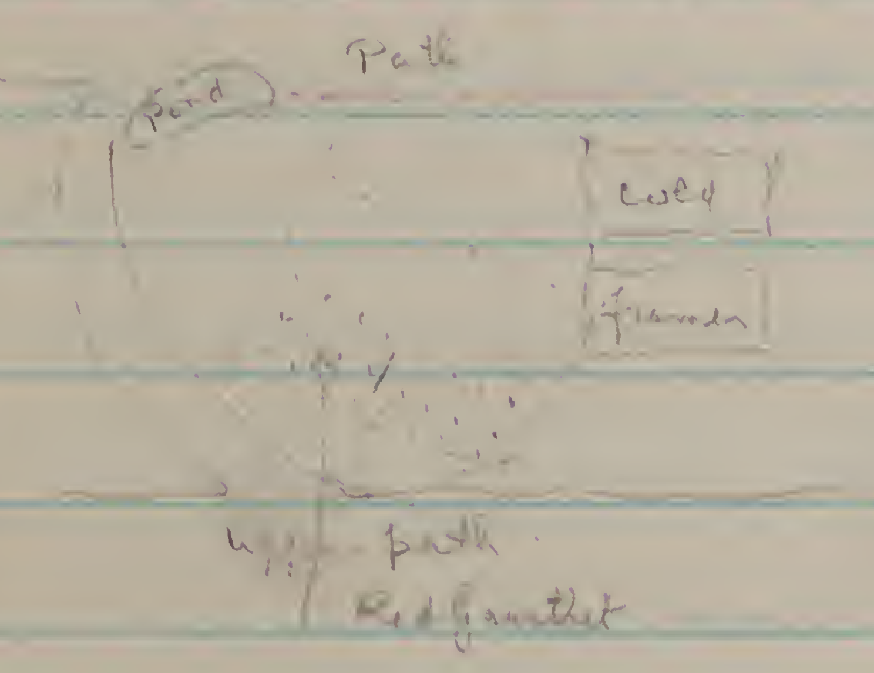
Belytids 8 mtd = {Oxylabis mesalata ♂. Leptorhaptus moniliformis ♀. Cinetus pecanus? 1♂, 1♀.
Pantoclis triareolatus ♂. Pantoclis sp.? 2♂♂. Acropiesta [illegible] ♀.

Proctotrupids ca 20.

micro. Proctos., Chalcids, &c v. abundant: 6 only mtd. (5 Chalcids, 1 Ceraphronid?) =

4th Sept. 1964. More or less the same as yesterday, but more cloudy in late afternoon & wind very light SW. I had to spend a couple of hours in forenoon sorting out the insects taken yesterday at [illegible] Lodge & no parcel post bringing 2 doz. strawberry plants which she had ordered from R. Lake, Redgate Hill Nurseries, Heacham, King's Lynn, Norfolk. A dozen each of Royal Sovereign & Red Gauntlet. As a place had to be prepared in back garden I at once went out & re-dug the plot between the cold frames & plastic frost for their reception & in afternoon I trod it firm & raked the larger stones off it & will plant the strawberries in it tomorrow, all being well. In afternoon the Misses Murray drove Daisy to Downpatrick to get the brace for her stooped back & head, which the Health authorities have been about four months getting made for her at the workshops of The Cripples' Institute in Belfast.

5th Sept. After a dry cloudy night, drizzle started at 10 AM just as I went out to plant the new strawberries, but I got them all in in three rows as per sketch, i.e. 1½ rows 12 plants of Red Gauntlet nearest upper path & 12 plants Royal Sovereign further from same!



Rain continued till mid afternoon when George & family arrived to spend rest of afternoon & have tea.

6th Sept. Sunday. After a dry, cloudy night, with W-NW wind, we had a 2nd similar day, with considerable sun & only a few drops of rain in showers with NW wind passed over the hill: wind died calm about tea-time & we had a pleasant evening. In evening I finished my report on specimens of Blacus sent for

6.9.'64, cont.

my opinion. I received them in six small tubes with enclosed letter & (copy) list. "Germany.

A1. Bad Schwartau / bei Lübeck, 25.7.1964 – Blacus paganus Hal."

[Two small ♂♂ of humilis complex, which in no way resemble paganus: they were dry & loose in tube with label & were both in fragments when received! AWS.]

"A2. ditto"

[Two specimens in spirit, probably same as A1, with discoidal cell not truncated by parastigma & therefore belonging to the humilis group! A.W.S.]

"A3. ditto"

[A single ♂ of humilis group: dry in tube, but not damaged! AWS.]

"B1. Bad Schwartau / bei Lübeck, 25.7.1964 – Blacus ruficornis Nees.
B2. Bad Schwartau / bei Lübeck, 18.7.1964 – Blacus ruficornis Nees.
B3. Kiel, 23.8.1964 – Blacus ruficornis Nees."

[In B1 3♂♂ in spirit; 3♂♂ dry in B2; & 2♂♂ dry & loose in B3 badly broken when received! All however are in my opinion B. ruficornis (N.) Hal. AWS]

When returning specimens to Dr Rudolf König, 3 Hegewischstrasse, (Zool. Inst.), Kiel 23, I sent him the following specimens from Ireland:–

B. ruficornis (N.) Hal. ♂, & ♀, from Trawalua, SL. 12.10.'37.
B. tripudians Hal. ♂. Devil's Glen, WI. 18.6.'50; & ♀. Dundrum C., DO., (1) 31.8.'61.
B. diversicornis (N.) Hal. ♂. R. Carel, KD. (3) 3.8.'61: ♀, same loc. (4) 5.8.'51.
B. ambulans Hal. ♂. Saggart, DU. 25.9.'35: ♀. Glenasmole, DU. (1) 6.9.'51.
B. paganus Hal. ♂, Tollymore Park, DO. (1) 18.7.'61: ♀. Trawalua, SL. 8.6.'60.
B. trivialis Hal. ♂ & ♀, Whitechurch, DU. 19.10.'54. All coll. by AWS.

In afternoon I had an hour's walk in Drumshill woods & with my hand caught 2♀♀ of [illegible] praerogator (not kept), 1♀ carrying larvae of Polyblastus wahlbergi (ant. 25), & 1♀ of Cymodusa antennator, ant. 33. Later in back garden lawn, 1 ♂ Homotropus pulcher (ant. 20) & a Coccinella (? variabilis).

7th Sept 1964. Mainly dull, with drizzle on the hills, very warm & humid, with warm & soft fresh W-NW breeze in forenoon, but no real rain down here! Much drier & fresher in afternoon, with some sunshine; at least one shower after dark & wind after dropping light, rose again before bedtime. In forenoon after fixing a new post at bottom of W. row of raspberries, I forked & weeded zone between 1st & 2nd W. rows, in forenoon. In afternoon I fed animals & cut a few veg. marrows for Daisy to give various neighbours.

8th Sept. After a dry & calm night, we had a cloudy day with drizzle off & on, especially on the hills, & a rising S.W. wind — strong in afternoon & evening. Mild. In forenoon I finished cleaning up the raspberry plot & Daisy posted 5 boxes of my 1964 transparencies to Mr Colville — mainly of the garden, but also including those taken above Rostrevor, at Rowallane, &c, when the Garricks were here. In afternoon I started to clean up the rose bower, &c, in front garden, but rain drove me in at 3.45 P.M.

9th Sept. In spite of a rather gloomy forecast, we had a very nice warm day, with considerable sun in afternoon, after a dry & windy night (wind SW & with strong gusts till afternoon when it gradually fell to light & calm. In forenoon I made a bonfire & started to prepare part of the upper plot E. of the peas (where Dutch & Golden Wonder potatoes were!) for some of our own Talisman strawberry runners. Later, in afternoon I continued this & finally dug the area N. of the old greenhouse & behind the Scottish plants, &c, preparatory to building the site into the "central mound" with soil taken from the main & upper plots wherever there is any to spare.

10th Sept. I am reminded that this is the 50th anniversary of our wedding! A very beautiful day, with entirely blue sky until late afternoon, when wind backed from W to SW. & cloud came up. In forenoon wind very fresh & gusty, but gradually fell in afternoon. Raked stones off site of old greenhouse & commenced to add soil on it to create the "central mound". In afternoon first cut front lawn & later the paths in [illegible]. I found a very battered Peacock Butterfly trying to get out of the garage at 10 A.M. this morning. 1st seen 1964.

11th Sept. 1964. After some rain during night, we had a very nice sunny day, but with strong E-N wind, gradually becoming calm, cooler & fresher in late afternoon. When coming from posting letters at 10.30 A.M. I saw a Red Admiral Butterfly on Tullybrannigan Road & a Peacock (very nice & fresh!) & spent day in back garden. In forenoon I completed the 4th row in new strawberry bed above the plastic pool by transplanting 3 two year olds from last year's plot & 3 rooted runners of same vintage. Also I carted odd barrow loads of surplus soil from upper border on to site of old greenhouse. In afternoon I cut back lawn & had just finished when Miss Kertland & Mrs Gunning appeared: the latter formerly Marion Forsyth! of Stranmillis Training Coll., Belfast. Gave Miss Kertland specimens of *Salix hibernica* (from Ben Bulben & the Glenade), *Salix phylicifolia* (from Lawers Burn, Mid Perth), and *Salix nigricans* ♀ (from S. slope of Ben Lawers, Mid Perth), to dry for Queen's University Herbarium.

12th Sept. After a clear calm & dewy night, we had another all blue sky day till cloud came up in late afternoon, wind inshore, light but quite cool from 11 A.M. till 4 P.M., when it dropped. Saw a Red Admiral Butterfly in garden at 2.30 P.M. & then went up into the woods on Drinnahilly & collected around my favourite laurel & by sweeping near it & in old sandpit. The new shoots on laurel appear particularly attractive & as many as six parasitics on a single shoot at times. Saw a Small Copper Butterfly at bottom of back garden.

Insects taken in Drinnahilly woods, Newcastle, Co Down, 2.40 – 3.40 P.M.

[not a single Ichneumonid (Vol 1)!]

Cryptinids 6 : mostly Hemiteles.

Pimpla ♀

Acrodactyla degener ♂, not mtd.

87. 12.9.1964, cont.

Woods, Drinnahilly, Co. Down, cont.

Dyspetes praerogator 3♂♂, 2♀♀ (emerging from a larva)
Gen. et sp.? 1♂, 1♀, small! =
Polyblastus westringi 2♂♂, 5♀♀ (all emerging larvae)
Monoblastus ♂
Exochus 3 =
Mesoleptus? 1 =
Stenomacrus ventralis 1♂, 2♀♀: not mtd.
Orthocentrus ♂, with huge acarid, ant. bitten off short.
Picrostigeus ♂, rather small!
Mesochorus ♀
Thersilochid 2♂♂ =
Campoplegids 3
Plectiscini ♀
Apanteles ♀
Leiophron ♀
Opius xanthogaster ♀
Aspilota ♀
A. (S) ♂
Dacnusa maculipes ♀: not mtd.
D. (?) ♂.
Ephedrus plagiator ♀. not mtd.
Proctotrupids 2: not mtd.
Belytids 2 =
Diapriids 1♂ =
Microspilotes, Platygasters, Cynipids, &c.

Beetles. 1 Staph.

13th Sept. 1964. Sunday. 88.

After a windy (SE) night with some rain, we had a very windy day, with wind veering to S & later SSW, with heavy rain commencing just after noon & continuing, off & on, till bedtime. As air so damp, we had our first fire of autumn in evening, though not cold outside. I posted today a ♂ of the Ich. Eclytus haematothorax, taken in Drinnahilly wood, here on 2/8/1964, with letter written last night, to J. F. Perkins for B. M. collection.

14th Sept. After some rain during night & thunder about 7AM (reported by postman & news on B.B.C. stated lightning had disrupted electricity supply in Bangor area of Co. Down'), we had intermittent & sometimes heavy rain with strong S. wind all forenoon, but afternoon was very nice & sunny & wind fell light, though a heavy shower passed over about 6.15 PM.

No work possible before dinner, but in afternoon I cleared up a stretch of the edge of the wee burn & planted on the garden side of it Carex curta from N. corrie of Ben Lawers (C. helvola of Druce?), C. grahami from Beinn-an-Lochain, & Kobresia from S. of Cam Craig: all brought home from Scotland in 1963 & in pots ever since: all 3 planted W. of Juncus castaneus & Scirpus caespitosus caespitosus & E. of C. buxbaumii. Also planted out the plant of Armeria montana given me by Mr Livens in July, which he had grown from seed, above & W. of the raspberries & above Linnaea borealis. Saw the fresh Peacock butterfly in back garden this afternoon, several Speckled Woods, but only one or two Whites (Small).

15th Sept. Heavy rain during night & until 8 AM, when it suddenly ceased & from 10 AM until a thunderstorm approached from W. we had a very nice mainly sunny day, with fresh SW-W breeze. After several showers the weather cleared again, but wind increased & temperature fell towards darkness.

In forenoon I did a lot of clearing up along the burn path & W. side of the sedge portion of rock garden & removed ferns, &c, which were overgrowing the smaller sedges. Did some more clearing up in afternoon. George came for tea from Annsborough where The Housing Trust has started erecting houses.

16th Sept 1964.

Very heavy rain during night but no wind. The rain, though lighter continued till nearly 2 P.M., with chilly NNW. wind; the afternoon was then mainly sunny, but several heavy showers fell before dark, while wind fell somewhat & backed towards W. In forenoon I wrote Miss Scannell about Salix hibernica, in reply to a letter of hers of 14th & posted it at 11 A.M. & then cleared of some ♂♂ of Bratichneumon which I had been sorting out from store. In early afternoon I went through my boxes of Dacnusinae to refresh my mind & make notes on what species I particularly wanted to show G. C. D. Griffiths, who with his wife crosses from Heysham to Belfast tonight & stays at McNeill's till Sat. 19th. Could do nothing in garden!

17th Sept. A lovely sunny day, but with cool NW wind, with only one slight shower at dinner time (1.30 P.M.) Met G. C. D. Griffiths at bus station (& his wife!) & dropped them at McNeill's (Sunnydale Guest House). After seeing their room they accompanied me to No 21 where Daisy had coffee waiting. They & I then spent a couple of hours around the Donard Lodge ruins & in the wood. In afternoon he came to our house again & we started to look at & discuss my coll. of Dacnusini Braconidae, which continued after tea interval till bed time.

18th Sept. After a fine night, we had a dry, rather windy (NW) day, but the forenoon was sunny & very lovely. About 12.30 noon cloud came over from W as a trough approached from the Atlantic, as forecast, but no rain fell till about 7 P.M. Cold & windy in early afternoon but less wind & warmer between 3 & 4 P.M. Finlay's car called for us at 10.30 A.M. & drove us via Bryansford & Hilltown, Newry, Warrenpoint to Rostrevor, where we arrived at 12.0 noon & spent over an hour in the oak wood just beyond south of the Great Northern Hotel, in which Griffiths collected leaf miners & I swept Parasitica! Left Rostrevor at 1.40 & drove on

towards Killowen & Greencastle. Stopped for half an hour at Ballygowan & spent the time on shore of Mill Bay, where I swept a few hymenoptera, but these not separated from those swept later in the salt marsh S. of Benagh, on margin of the White Water estuary (where I collected on 30th July, 1964): here we collected for an hour & a half, while Griffiths hunted for possible food plants of my little Dacnusa anasella, & I swept the marsh. Owing to chilly wind not many insects out at first but as wind moderated & some warmth from sun filtered through the clouds more came out & I took a fair number. Then home through Kilkeel, after short visit to Greencastle pier. Arrived Newcastle at 5 P.M. On concrete sea wall at Greencastle I collected a moss in fruit just above tide mark. In evening Griffiths came to look over more of my Dacnusinae.
(Barbula fallax fide Fitzgerald!)

The following hymenoptera swept (1) in the oak wood at Rostrevor & (2) on shore at Mill Bay & Benagh (Est. of White Water)!

Oak wood at Rostrevor, Co. Down. 12 noon till 1.30 P.M.

[illegible] ? ♂ (lost!).   Ichneumon deliratorius ♂, examined.

[illegible] 3 [illegible] ♀, ant. 19

& [illegible] ♀, ant. 18: but [illegible]

Alysia ♂ Phaenocarpa [illegible], ant. 24; gen. et sp.? =

Aerodactyla degener ♂ ♀, ant. 23 & 22   Pimpla [illegible] ♀, [illegible]

Schizopyga atra ♂, ant. 24.

Stenomacrus ventralis 1♂, 3♀♀; ant. [illegible]. St. [illegible] ♀, ant. 22. St. [illegible], ♂, ant. 22, 23 ♀♀, ant. 20–21.

Exochus ♂ = E. pictus ♀, ant. 31.

Rogas circumscriptus complex! ♀, ant. 40, stigma pallid, with streak.

Opius stenops ♂, ant. 23.

18.9.1964, cont

Wood at Rostrevor, DO, cont.

Alysiid ♂ = Phaenocarpa [illegible] : not mtd.

Aspilota 6 = A. cynipidis, small ♀, ant. 17, very red legs; A. cf. lyra? ♀, ant. 22.

A. fuscescens 2♀♀? ant. 17 & 20. A. fuscicornis ♀, ant. 16.

A. thesleri? ♀, very close to fuscescens, but ant. slender & longer, with 20 segs.

Dacnusa merella ♀, fide Griffiths, ant. 35: large specimen.

D. laevipectus 3♀♀ & D. areolaris 1♀, not kept.

Ephedrus validus ♀: not mtd.   Aphidius ♂: not mtd.

Proctos, Belytids, Cynipids: many & mostly "micros"

Diapriids 3 = Ashmeadopria sp ?, 3♂♂, 1♀.

Phaenoserphus viator, var. contiguus Hal. ♀, with very narrow, small wings.

Ph. calcar ♂   Exallonyx ligatus ♀.

Pantoclis cf. triola? ♂.   Zygota sp.? ♂

Salt-marsh at Mill Bay & estuary of White Water (Benagh), Co. Down, afternoon.

See opp. page →

on breakwater (concrete) at Greencastle pier I took a [illegible] = [illegible] fallax fide Fitzgerald! See p. 90'

18.9.64, cont.

15 mtd & last labelled "Whitewater Est." [illegible] 20 [illegible] (2) 18.9.64 [illegible] 20/10/64 [illegible]

Salt-marsh at Mill Bay & estuary of White Water (Benagh), Carlingford Lough, Co. Down. A.W.S. (2) 18.9.64, afternoon.

Cryptinids 2 = Hemiteles   small, very black ♂, ant. bitten off short.

Phygadeuonid ♂, ant. 21

Pimpla brevicornis ♀: not mtd.

Gen. et sp.? ♀, Mesoleiid?: same as ♀ taken at Ashdown, Co. Wi., on (5) 22.6.1930!

Apanteles sp.? 2♂♂: 1 only mtd.: same as ♂♂ & 2♀♀ taken on 19.6.1960!

Aphaereta cephalotes ♀, ant. 17+, bitten off short.

Aspilota (S.) concolor ♀, ant.

Dacnusa areolaris ♂: not mtd.

D. amaurella ♂ & ♀, ant. 22/21, at estuary of White Water!

D. temula 2♀♀, which sp. Griffiths says is a parasite of leaf-mining Diptera on Cochlearia & other Cruciferae! Ant. 25 & 26.

D. cyclops ♂: not mtd.

Aphidius sp. minute ♂: not mtd.

Proctos, Belytids, etc. = Ashmeadopria sp. No. 5 ♂. Exallonyx ligatus Hal. ♀.

Cynipid: ♀ with short wings — suggesting a "flying flea"!!

19th Sept. A fine windy day, with fresh S.W.-W. cool wind & showers, of which we got two in afternoon only, after a dry night & pessimistic forecast. Griffiths spent forenoon looking over my Dacnusinae & took away several which looked promising. In afternoon Finlay drove us to the Shedding Ford & we spent 2 hours in the demesne S. of Mourne House, he looking for leaf & stem miners & I for Parasitica. Few of the latter were swept, but a large number were taken with [illegible] off the leaves of a 6 ft. Sycamore under which I sought shelter from the heaviest shower. Griffiths got a miner in stems of Scrophularia nodosa, from which he said none had been recorded & in

8

19th Sept. 1964, cont.

Dunes S. of Murlough Ho., N. of Newcastle, Co. Down 2.20–4.20 P.M. cont.

the tunnel of one found a living, but with deformed wings,

Dacnusa [illegible]? [illegible]: sent to Griffiths, Oct. 1964.

Insects swept or taken with sucker on dunes.

Cryptinid 2: not mtd. [ca. 26 mtd. & labelled Dec. 1964]

Lampronota cf. marginator, ♂ & ♀, ant. 28 & 26, but does not agree!

Cryptopimpla calceolata Grav. ♀, ant. 36

Stenomacrus carbonariae Roman, 3 ♂♂, ant. 21, 22, 22.

Porizonids abundant! only 6 mtd.

= Diaparsis? sp. 4 ♂♂, ant. 24, 24, 25, 25, 1 ♀, ant. 23.

Barycnemis?? (cf. claviventris Grav.??), ant. 25: does not fit well!

Mesochorus? sp. ♂, ant. 32.

Meteorus rubens 5 ♀♀

M. ♂

Blacus 3 ♀♀: only 1 mtd. = B. ruficornis smaller ♀, ant. 21. B. diversicornis ♀, ant. 20.

Alloea contracta ♀: not mtd.

Phaenocarpa ruficeps ♂, not mtd.

Aspilota 3 including a minute ♀ about 1 mm in length of body: see below

(Dacnusa senilis)? ♂ from leaves in stem of Scrophularia (Griffiths) or areas ; This ♂ sent to Griffiths!

Aspilota cf. ruficornis, a minute ♀, with 14-seg. antennae! A. sp.?: ♀, ant. 15, no dimple, cf. minutotumida?

A. minutissima? ♀, ant. 16, A. cf. lyra?: ♀, ant. 18.

Aphidius ptarmicae? ♀, ant. 21.

Proctotrupoids 33 & nearly all ♀♀ of various species: 8 only mtd. =

Exallonyx niger? ♂. Exallonyx [illegible]?: a large ♀ with entirely black antennae & dark legs, also a smaller & more normal ♀.

Ex. brevicornis ♀. Gen. et sp.? ♂. Phaenoserphus pallipes, ♀. Gen. et sp.? ♂,

Gen. et sp.?: a very small ♀, with black antennae & legs, square head, short antennae.

19. 9. 1964, cont.

Dunes S. of Murlough Ho., Co. Down, cont.

Other Proctos (minute) 4 = Ashmeadopria sp. No. 1; 1 ♀ & also ?2 ♂♂; all small!

& Conostigmus? 1

Chalcid minute 4.

Sand bug (Hemipteron) 1 =

20th Sept. Sunday. After a dry windy (NW) night, we had a dry, windy, & all sunny forenoon, but heavy showers & sun alternately in afternoon! wind fresh & gusty from W. to NW. In forenoon I was digging one of the potato-plots, in 1963 some from compost had germinated in hundreds since potatoes were dug. I also took slips of my own floriferous seedling of Erica vagans & of E. [illegible] from [illegible], wrote letters, & posted slips before dinner. Did not go out in afternoon or later.

21st Sept. After a dry calm night, we had a dull, misty, cold, but calm forenoon, but about 4 P.M. a drizzle started, which with rising southerly wind soon became rain & becoming heavier as the evening advanced, with rapidly falling glass.

Very heavy dew, almost frost, during the night, but the Dahlias not touched. Before dinner I completed carting earth on to the old greenhouse site to make the "central mound". After dinner I had bonfire until rain came. The little Rhododendron racemosum with a few flowers just opening!

22nd Sept. After a wild & rather stormy night (S.), we had strong SW. wind all day & much hill-fog: only a few short glimpses of sun in afternoon, when I got the front lawn cut: in forenoon & again in late afternoon we had either mist, rain blowing in the wind or real rain; very mild! In forenoon I finished preparing new strawberry ("No. 2 plot") plot in upper border next where Daisy's peas have been & W. of the Scarlet willows. Also pulled up some of Daisy's annuals & put them on compost heap, under instructions!!

23rd Sept 1764.
A most lovely autumn day! All sunny after a dry windy night, with southerly wind remaining fresh all day. Very mild.
In forenoon I dug the last few potatoes, put in very late (7th June!) & got a fair bucket full of nice spuds. At dinner time Mr Caldwell phoned & asked us to go with him & Mrs Caldwell to the sandhills S of Murlough House & we left home at 2 30 PM with them & returned at 5 PM. I spent my time along margin of Inner Dundrum Bay, below Sliddery Ford, sweeping with poor results & got very few Parasitica except "micro" Proctos. & Chalcids. Before starting out with the Caldwells I lit a bonfire & put on it the haulms of the potatoes I dug before dinner & by dark I had most burnt.

Insects swept below Sliddery Ford for 1/4 mile along estuary by the road leading to Murlough House, Co. Down. 3.0 to 4.0 PM.

Bombus lapidarius ♂♂ seen on flowers of Scabiosa succisa! none seen this year in garden!

[All ntd. + micros to those labelled on 25.9.64. RWS.]

Pezomachus fasciatus ♀, ant. 22; white on its back!

Phygadeuonid ♂, small, ant. 20 = Perilitus brevicornis ♀: not kept.

Campoplegid ♂: Cymodusa leucocera ♂, ant. 37.

Bracon osculator ♀; var. A! ant. 24: eyes longer than temples when seen from above!

Aspilota 4: 2 very minute! Aspilota ? of littoralis or ? mandibularis? ♀, ant. 20 {curious & powerful mandibles very smooth & protuberant face!

A. cf {insidiatrix micacea ♀, ant. 17, but 2nd cubital areolet shorter! than in micacea.

A. minutissima, small ♀, ant. 15.

A. (S) concolor, a minute ♂, ant 17.

Dacnusa areolaris 1 ♂. not kept.

D. maculipes ♀, very minute: ant. 19/20.

Aphidius ♂, ant. 16 - very black legs.

All above labelled in error 28th instead of 23rd Sept.! RWS. 1964.

23.9.64, cont.
Below Sliddery Ford, Inner Dundrum Bay, Co DO., cont.

minute Proctos. & Chalcids ca. 36

Chrysomelid beetle 1 minute Larva (? Hemipteron)

24th Sept. A cloudy day, after a little rain during night, with fresh SE wind veering SW in evening & increasing to a gale, with heavy rain from 6 P.M. onwards & falling glass. Although hill fog covered the hills all day, there was no real rain, except a fierce squally shower at 2 P.M. & I got the plot between the raspberries & the Oaks & Arbutus re-dug, & the Broom, which was crowding the Arbutus, removed & burnt. Very mild! Peacock Butterfly seen in garden yesterday & to-day. House Martins also seen on both days, but seen only a few, whereas last week there were still many. This morning for the first time this autumn we saw the Rooks passing southwards on their daily migration evidently from the winter roosts to their summer breeding territory.
25th Sept. After a dry, but stormy night we had a mainly wet forenoon & a mainly dry sunny afternoon during which the wind dropped from fresh to very light; south-westerly all the time. All I got done in garden was to complete the re-digging of the plot W. of the raspberries. A large part of the big old willow in the nuggery broke & fell last night, as did another branch of same tree about three years ago. During afternoon a small party of House Martins seen flying over the back garden, while between 7.30 & 8.30 AM parties of Rooks were again seen making southwards towards the coast.
In evening I began the winter labelling programme.

8 97. 26th Sept. 1964.

After a fine & calm night, we had a poor day, with much rain or drizzle & a terrific ten minute hail-shower at 1.30 P.M. The only fine part of the day was between 10 & 12 AM, during which period I was at the P.O. in town, cleared a barrow-load of muck from the reservoir in wee burn in waggy; & cut the branches off the fallen willow thus clearing the path in waggy across which it had fallen.
In afternoon E. M. Carruthers & a young friend from Co. Armagh called for an hour. Put nylon net over the cordon apples, as the blackbirds had attacked them! Peacock, Small Tortoiseshell & Speckled Wood Butterflies (1 of each) seen in back garden.

27th Sept. Sunday. A very lovely day, after a fine night. Calm or only a gentle SW breeze & nearly all sunny till late afternoon when some light clouds. Left house at 10 AM & went straight up the Green Hill & on to top of new forestry road & thence round S. side of Drinnahilly & home via "the old track" at 12.30 noon. On way up T. Road saw a Peacock Butterfly sunning itself on Mr Smiley's front wall & on road W. of summit of road & W. of Drinnahilly met a Painted Lady Butterfly sunning on road at ca. 500 ft. alt. Saw the lower arenaria on way up new road (see p. 46 antea!) & found 5 or 6 nice plants of Erodium cicutarium in flower on roadside in usual place just W. of summit at about 700 ft. Pinguicula lusitanica had one flower on way down & above shepherd's old house. Stopped for a minute at my favourite laurel bush & saw three flies on one of the young shoots: caught one in fingers & found it was a ♀ Exoelus picta!
In afternoon cut back lawn! During morning walk I carried home round Drinnahilly the full of Daisy's old shopping bag of chips where forestry men have recently been thinning the plantation of Scots Pine, their weight at least a stone, as mostly wet.
Saw two House Martins after breakfast & two at tea-time!

28th Sept 1964. 98

Another very warm & dry day, after a calm & dry night. Forenoon entirely sunny & warm, with wind in South, but the afternoon cloudy, cooler, with rising SW wind, veering W. & only clearing at 6.30 P.M. Spent forenoon getting ready the new strawberry bed in upper plot & removing (to clearing space) peas. In afternoon had bonfire & got the pea haulm burnt as well as the weeds that were under them. Later Daisy selected 30 of the strawberry rooted runners from our old plot of Talisman. These planted in four rows: 8 plants in the outside rows, 7 in the inner! About 10 AM Daisy saw a Red Admiral on Michaelmas Daisy in back garden & at 4 PM just before we went in there was a nice fresh-looking Painted Lady Butterfly basking on the bare soil near the cold frame.

29th Sept. Another fine day, following a calm dry night (but little dew) & a few minutes "Scotch mist" just after breakfast as SW-W. breeze rose soon after. Then all sunny till early afternoon, after which cloudy, more or less. Ground frost forecast for tonight. In forenoon tidying E. end of middle plot (above the raspberries) & did some other odd jobs. In afternoon cut grass in waggy, cut out new shoots of blackberries in whins, & trimmed various things. After tea brought into greenhouse the seedling dahlias (in seed tray) which Daisy had left untransplanted & neglected for a long time in cold frame, until I started to water them about beginning of August, as an experiment.

30th Sept. An entirely sunny day, with no real wind, after a near miss of frost during the night. Sun very warm! Spent day in garden either re-digging upper plot where potatoes or strawberries were or pruning heaths which were going out of flower & had got too large. I think the House Martins have gone, although I might have seen two yesterday over the [illegible] & one today over Stone Castle Bank but in both cases too uncertain to be sure of the identification.

1st October 1964.

Another day equally as fine & sunny & warm & calm as yesterday, after another near frost during night.

Spent forenoon putting kettles of boiling water on weed path below the frame. Where many seedlings of Sagina procumbens & S. apetala have come up in the ~~spaces~~ between kettles I scuffled & weeded around the Arctous alpinus. Finally I did some more digging in the old strawberry plot, where the roots of my Scottish willows have got a good hold. In afternoon I continued digging & finished the above plot.

2nd October. After a calm & misty night & morning, we had another dry & mainly sunny day, but an E wind kept temperature below that of last few days. Spent forenoon digging plot in upper border next compost heap where this year peas were & at same time trimming the roots of Anderson's privet hedge which in this one season had occupied at least the upper third of the plot.

In afternoon I trimmed Erica growing amongst Betula nana & various Azaleas & Rhodos. on bank W. of the central mound (i.e. site of old greenhouse!); & then got it & other rubbish all burnt.

3rd October. Dry, but more cloudy with smoke haze & hill fog, & E breeze; the sky only clearing in late afternoon as wind fell to calm. Mrs Nora Fisher, Mr Nelson arrived from England at 11 A.M. & went back to [illegible] Hotel for 1 o'clock dinner, but came again in evening. I spent afternoon clearing away accumulated piles of stones from recent digging operations in back garden, riddling them, & dumping in "trans-Jordania" to narrow bed of the wee burn in the [illegible]: six (or seven?) barrow loads! At 11 P.M. seeing a large testaceous coloured Ich. on window of bathroom I opened the window & let it in to the light & then captured it: it proved to be a ♀ Paniscus fuscicornis Holmgr. Cat. 44.

4th October 1964. Sunday.

Another fine day, but more mixed sunshine (wind SE, strong in forenoon, with thick smoke haze over Strathmore & which cut off the sun till end of afternoon. Then a slight shift of wind to S. cleared the haze & it became a very sunny afternoon & mild out of the wind. Spent an hour in forenoon in garden with Mrs N.F. & Mr N. getting seedlings of various primulas, [illegible], meconopsis, [illegible], "forms", pratense, phlox, [illegible], [illegible], [illegible], columbines & sanguisorba. After dinner I had 1½ hours with net in the wood on Drinnahilly & saw quite a few Ichneumons on laurel & [illegible]. Brought a few home & these included:-

Barichneumon locutor, very fine fresh ♀, cat 26.

Hemiteles politus Bridg.? ♀ cat. 21.

Stenomacrus ventralis ♂, ♀ & I am pretty sure many of those seen belonged to this species. None kept!

Aperileptus circumscriptus ♀, yellow [illegible], with reddish leg..

Proctotrupid ♀ = Exallonyx microcerus ♀.

Chalcid!

5th Oct. After a cloudy & dry night with continuing light SE. wind, rain commenced about 8.30 A.M. & continued moderate to very heavy until 4 P.M., then wind veered from SE to SW. As I went up to post a letter at 4.30 I saw a flock of Hirundines, some 6 to 8, & as far as I could make out all Swallows or young Swallows. No House Martins identified since 27th Sept. The waterfalls at quarry & "black stairs" on Thomas, but I think the greatest I have ever seen.

At 6 P.M. two of the Hirundines seen flying while we were at tea so the party are in no hurry southwards; possibly the hill-fog or the mild damp atmosphere & good feeding has made them tarry on their journey!

6th October 1964.

After a cloudy night & early morning, dry, with SW-S wind we had a very wet, wild, afternoon & evening, with light wind from S-SW. at first & later strong puffs from SW with rapidly falling glass. Mrs Nora F. McM called to say "good-bye" in forenoon & left for England by 12.40 train. She took with her much MS. notes on molluscs as I found amongst the late R. A. Phillips's belongings when I went to look to take over his collection of plants & shells for National Museum, Dublin, where they now are. She is to pass them on to Kenney in London & when he has copied the records for molluscs is to return them to me & I will then send them to Nat. Mus. Dublin. No work possible in garden.

7th October. Following gale from S. & heavy rain at times during night, we had frequent squally showers & all day, with gale force SW wind; much colder than of late. In afternoon I cut up some of the branches of the recently blown down willow in the swamp.

8th Oct. After another dry & windy night (S) we had a dry windy forenoon (W) with good sunny spells, but several very heavy showers occurred in afternoon, while wind veered to NW. with gusts to gale force in showers, finally falling in evening; advanced cold. As not up to the mark I did not leave house except to post a letter!

9th Oct. Another cloudy, cold, day, but mainly calm, after a fine & starry night. Snow fell in N. England last night for first time this autumn & forecast for high ground in Wales, N. Ireland, & northwards tonight. No frost so far, but turned on boiler in greenhouse for first time this evening just in case. While at dinner a small flock of Hirundines seen wheeling & playing round Slieve Moyne Park (? Swallows)
Did not work in garden!

10th Oct. 1964

After a cold & very wet night, with NNE breeze we had a day of showers of almost sleet & probably snow on the summits of the Mournes, but cloud never lifted. A few brief fine spells only during the day, but wind dropped to calm, northerly, & then showers in late afternoon. Two peals of thunder during evening & several flashes of distant lightning seen at 2 AM. on 11th

11th Oct. A very fine sunny day; cold, with light N. breeze, after a cold night with a few showers, but no frost. Sunday

Several times during afternoon Hirundines seen flying around & one whose white rump flashed as it turned in the bright sun was definitely a House Martin.

Yesterday the flight of Rooks returning from the south passed over at 1.30 P.M., but today at the more normal time between 4 & 4.30 in afternoon. I have noticed that on bad days they frequently return early, but the outward morning flight appears to be timed at about an hour after sunrise. Took a photo of the [illegible].

12th Oct. Another dry, calm, & mainly sunny day, after a coldish day & calm night, but no frost here. The Hirundines seen many times during the day & probably were a couple of dozen about. I suspect a mixed flock of House Martins & Swallows, but none definitely identified.

13th Oct. After a clear starry night, with very heavy dew, but no frost, we had a calm & sunny forenoon, but about noon a high haze covered the sun about noon. This gradually thickened & a SE breeze arose & rain came on about 2 P.M. & continued till dusk. Hirundines seen about during most of the day, but ? species.

14th & 15th More or less similar to yesterday, after morning rain on 15th the day became fine in afternoon as the "complex depression" moved away east & a ridge approached from the Atlantic; wind variable & light, mainly N on 15th. House Martins or Swallows still about & 2 seen at tea-time on 15th, on afternoon of which day I had to go to Downpatrick Hospital to get further injections for haemorrhoids, owing to renewed bleeding.

General Election held today & we voted at 3 P.M. before I went to Downpatrick.

16th October 1964.
After a cold night with some [illegible] & dry, we had rain again after breakfast & then a dry day with some sun about mid day & cloud later: wind light to moderate N.W.
In afternoon cut outside of front laurel hedge, the first work I have done in garden for a week.
At breakfast (8 till 8.30 AM) watched two (definitely only two!) Hirundines sporting with each other over [illegible] & [illegible] of our front garden. I think they were House Martins, but this is not quite certain.

17th Oct. A very nice day with variable breeze & much warm sun in forenoon; more cloudy in afternoon [illegible] from the Atlantic. Three Hirundines seen during & after breakfast & these definitely identified in bright sunlight as House Martins.
In spite of hot sun & many Honey Bees about I saw no Bumble bee in the forenoon, but at 1.30 as we finished dinner I saw one on Erica ciliaris flowers in front of house & went out to investigate & found it was a rather small fresh ♀ of Bombus lucorum, so fresh that its bands had the rich brownish yellow colour of the specimens taken [illegible] Allen many years ago near Dublin & described by me in I.N.J. as var. splendens. These are in Nat. Mus. Dublin & the last time I looked at them the bands had faded to the usual pale yellow colour, but I never recorded this fact, I am ashamed to say! I expect these late & fresh ♀♀, like that seen today, are hatched in an abandoned nest & are unlikely to find a ♂ to mate with. Before dinner dug up & potted & put in greenhouse the second Heliotrope seen in garden, as the first brought in several weeks ago is looking quite happy & its buds opening quite nicely. In afternoon I had bonfire.

18th Oct. 1964. Sunday.

During the night the temperature rose considerably above recent days, & there followed a very mild & damp wet day: slight drizzle commenced shortly after 8 AM & continued off & on till 1 P.M.: the afternoon was very humid, but no rain fell & we had short glimpses of the sun. The feature of the day, however, was the large flock of Hirundines seen during dinner (1 to 2 P.M.): this flock amounted to at least 20 & were I believe all House Martins. At breakfast, as yesterday, there were three House Martins disporting themselves over the area opposite the house, but no more than the three. Then at dinner time the air seemed full of them & at one time there were 13 sitting on the telephone wires in the field opposite. At 2 P.M. I set out to find out where the forestry men were working in the woods E. of the waterfall, as we had seen columns of smoke rising from that area for some time. I found that they had cleared a large area below the road just W. of "Lindsay's Leap" & had been burning the brambles, &c, getting ready to replant the area. Most of the larger trees have been left standing, I assume, to form a shelter. I returned by the upper road over the second bridge. During the walk I frequently stopped to look for Hymenoptera on the brambles, laurel, &c, but saw none until I came to a small laurel about 100 yards above & W. of the wooden bridge over "Lindsay's Leap". During some ten minutes at this laurel I took with the sucker specimens of [illegible].
I then continued my walk & stopped frequently to look at the laurels I passed, but saw none till I came to my especial laurel at N. base of Drinnahilly, on which I saw 2 & caught 1 [illegible] radicans? ♂ with my hands. Those taken at Lindsay's Leap I regard being in the Donard Lodge wood: (E. of the Donard waterfall!).

Taken with sucker on laurel 100 yards above & west of Lindsay's Leap, in the Donard Lodge woods, Newcastle, Co. Down. 2.30 P.M.

Leptocryptus 3♀♀ = Lepto. laminus Thoms.? 2♀♀, ant. 27-28. Lepto. prominens ♀ ant 24, [illegible]!
Polyblastus wahlbergi ♀, carrying larvae, ant. 26
Stenomacrus ventralis 2♂♂ 2♀♀; 2♂♂, 1♀ mtd.; ant 24, 24, ♂♂; 23, ♀.
Plectiscidae 4 = Proclitus paganus? ♀, ant 19. Plectiscus [illegible] ♀ [illegible] ant 19.
Plectiscus of humeralis? ♀, ant. 20   Aperileptus albipalpus?? ♂ ant 19 { in colour almost the exact image of the above ♂♂ Stenomacrus ventralis!!

18.10.1964. cont.

On laurel, Donard Lodge woods, Newcastle, Co. D. cont

[illegible] ? ♀ = [illegible] Thom. ♀, very nice, but.

Proctotrupoidea ♀ = Phaenoserphus cf. calcar 4♂♂, 27♀♀, (10♂ 14♀ not wtd.) but ♀ with [illegible] abnormally short [illegible] W.S.!

Exallonyx ligatus 1♀. Exallonyx microcerus, 2♀♀, not wtd.

Chalcids ? =

19th Oct. After a mild & calm night with heavy dew, we had a very nice day, though rather damp, with hill fog in forenoon, but on the arrival of a southerly wind the air dried & we had some good sunny intervals in afternoon. Wind dropped in evening. At least 2 House Martins seen during breakfast, but none later. The event of the day however was a ♀ Bombus jonellus heavily laden with pollen on hind legs at the Erica ciliaris in front of house at 1.30 P.M. At same time & place was a fresh ♀ Bombus lucorum & a ♀ of lucorum. Later, 4 P.M., in back garden I saw a rather worn dark ♂ lucorum on Erica [illegible]. The jonellus ♀ must have had larvae to feed, otherwise she would not have been collecting food. What does it mean? Nearly 40 years ago I discussed this problem of late jonellus ♀♀ collecting food. He had noted the same thing in Devon, but had no definite solution of the problem. So far as I can form an opinion, it is very strong evidence that Bombus jonellus has at times at least a second brood in the year. This rather than that some ♀♀ don't come out of hibernation till autumn.

The Mahonia & a young Trollius in back garden & Cydonia nearest house in front garden & several Rhododendrons in back garden in flower.

20th October 1964.

A very nice dry & calm day, with sunny spells in forenoon, cloudy later. I spent the day removing the old carnations & [illegible] from lower side of the upper walk in back garden just E. of the cold frames, & having cleaned up the border of path I broke up & replanted the Polyanthus on edge of path & put in 3 cuttings from each carnation behind & made all ship shape by 5 P.M. Took a photo. of back garden from bedroom window to show autumn colouring. No House Martins seen today & no Bumble identified, but one or two flew past me in back garden which sounded like B. lucorum. Vespula vulgaris ♀♀ still about, but scarce. Just before dinner I saw a strange man taking photo. of our front border & went out to speak to him & invite him in. He came back in afternoon to see garden & a chat. He turned out to be a Mr. Brownlee from Enniskillen district, who, with his wife, are staying a few days with our local artist Mr. Bond Walker. He & wife have a new bungalow & are starting to make up their garden, but not yet ready for plants. I offered him some when he was ready for them.

21st October. After rain in early part of night we had a dry day, i.e. there was no rain, but air was very damp & the hills covered by hill fog, with N.E. breeze & no sun. Cloud only vanished about 6 P.M. when wind dropped & temperature also dropped. Saw Mr. Caldwell in morning & he came back & helped me to fix two taps which had [illegible] in [illegible]. Then I spent the rest of the day removing mud from the upper reservoir as was lower & from the pond in the [illegible] and clearing up side of same pond & of the brook almost to where it comes into our garden from Andersons. Saw a ♀ Bombus jonellus with load of pollen at flowers of white Erica [illegible] in back garden in afternoon. No House Martins seen.

22nd Oct. After a calm & bright night with full moon, but not quite frost, wind came up from W. about dawn & by 10 A.M. wind had reached gale force in gusts & glass was falling heavily, but no rain fell till about 3 P.M. & lasted till after 4 P.M. when glass suddenly turned horizontal, but the shower, cold, fell at 6.15 P.M. In forenoon I dug out a clump of

22.10.1964, cont.

carnations on upper edge of upper path & replaced these with 3 cuttings off and setting a little further W, where old strawberries were. Later started bonfire & got it going before dinner with prunings stored at compost heap & after dinner I gathered the trimmings from the pond &c. in the wagon which I had cut yesterday & got all on bonfire before rain came. Then cut up dead willow branches for an hour in garage. Saw no more House Martins & no swallows.

23rd Oct. After a cold & rather wild night with NW wind near gale & frequent heavy squalls of sleet, we woke to see snow [illegible] on the hills, [illegible] white down to about 1500 feet with light snow to 1000 ft. The day was bright with wind [illegible] but [illegible] frequent heavy showers – snow a little – & strong NW-N wind [illegible] following the day with a "Could do nothing in garden" [illegible] dried plants.

24th Oct. After a dry night – clear at first, cloudy later, – but no frost, we had a cold & dull forenoon with cold NNW wind; later wind backed to SSW & felt [illegible] the afternoon a little milder: no real rain fell here but we had very light rain at night at times.

In forenoon I cleared the old carnations from the middle path above the raspberries, but did not get the ground all dug.

George & family arrived about 3 P.M. & left for home at 7.30 P.M. When I went into [illegible] about 4 P.M. I was surprised to see, clearly, 3 House Martins flying across it & easily recognized. Snow on Slieve Donard etc. above c. 1500 ft.

25th Oct. After a milder night & probably drizzle on hills the snow all gone on Sl. Donard, etc. by 9 A.M. Sunday. R. C. Faris arrived at 10.45 & left for Dublin at 7 P.M. He brought with him a clump of the hybrid sedge Carex hirta x vesicaria from [illegible], Co. Wicklow,

25.10.1964, cont.

and a plant of Asplenium lanceolatum from the Old Head of Kinsale, Co. Cork, where he said it was very common on old walls, etc. Having planted the sedge by the pond in "Transjordania" & the fern behind the [illegible] planted N. of "The Mound", where old greenhouse stood, & had dinner, we discussed [illegible] & [illegible] until [illegible] tea time.

The House Martins again seen at breakfast time & Faris & I both saw one in afternoon as it flew over the house.

26th Oct. A slight attack of shingles confirmed by Dr Gibson & as I have been troubled with sciatica these last few days I was not in very good form & did not go out, but this was of little importance as there was a thick fine drizzle most of the day, which was mild with light & variable wind.

27th Oct. A fine forenoon, dry, with E-[illegible] breeze & much sun in forenoon, cloudy in afternoon. House Martins (3) seen on many occasions during forenoon. Mounted dried plants & feeling rotten!

28th Oct. After a dry night, similar day to yesterday, sunny in forenoon, cloudy in afternoon. Having put my [illegible] stock of [illegible] in [illegible] last night I got it packed up today ready for Daisy to post to Dr A. M. [illegible] tomorrow. No House Martins seen today.

29th Oct. Another dry day, after a dry night, sunny in early morning, cloudy all day after 10 A.M. Wind very light & variable. Cool. Spent most of day mounting dried plants. No House Martins seen.

30th Oct. Another similar day, with light NE breeze & therefore cool, but mild in shelter, except for a very slight drizzle about 10 A.M. when NE breeze arose we had a dry day. Still under the weather with sciatica & shingles in left leg & so nothing doing in garden. Received & returned typescript of my MS. on Salix hibernica for I.N.J. January number. No House Martins seen.

31st Oct. Another & similar dull day, but with NE wind & heavy drizzle most of midday. Mrs [illegible] called! I finished MS. notes on Irish "wild oat" & posted them to Stanley [illegible] (Glasgow) with letter, for his comments.

8
1

1st Nov. 1964 Sunday.

Windless & very damp but with considerable glimpses of sunshine through in forenoon when I took 4 photos of autumn colouring in garden: one in front, 3 in back garden.

2nd Nov. A calm & almost all sunny day, after a near miss of frost & a starry night. As not quite rid of shingles & a cold still bothering me, I continued to mount dried plants.

3rd Nov. Similar to yesterday. Spent day mounting plants.

4th Nov. Entirely dull, calm, damp & cold air, but no rain & no frost during night. Mounted more plants.

5th Nov. Even duller than yesterday, otherwise similar. Had to have the light on all day while mounting the dried plants, but finished off the last of the season at 10.25 P.M. Absolutely no wind all day.

6th Nov. Sky cleared during the night & we had a mainly sunny day, in great contrast to the last few days, otherwise it was like them calm, dry & cold, but so far no frost though some forecast inland for tonight. In afternoon I had a bonfire – the first work I have done in garden for some time. About 4 o'clock in the afternoon it was very cold & just while I was attending the bonfire I found a large worker of Bombus lucorum heavily laden with pollen working the flowers of Er. Darleyensis Heath in the Rhodo. plot at SW corner of back garden.

7th Nor. Mainly dull after a white frost early in the night & only some short spells of weak sunshine. Wind stronger than of late & backing from NE to SE about 9.30 till 10 AM. Continued to keep the bonfire throughout the day & got most of the accumulated refuse burnt though much of it was sodden & wet when I commenced yesterday.

8th November 1964 Sunday.

Cold calm & mainly sunny, after a cold night but no frost. In forenoon I had walk to Howard Lodge & down by the middle road. Stopped to see if there were any Hymenoptera on my favourite Laurel in Drumhill plantation, but saw none.

9th Nov. After our first real frost, with very thin ice on tubs by the central mound, we had an entirely sunny day & not a cloud. Some large areas with dense fog reported in and in Belfast & in parts of Gt. Britain. Spent a couple of hours in garden before & after dinner & began to clear up the beds of the rose lawn in back garden opposite Drawing room.

10th Nov. Another nice, cold, but sunny day, after quite a hard frost that blackened, I'm sad to say, all the Dahlias, Nasturtiums & other tender plants. About 1/8" ice on tubs. Did virtually no work in garden!

11th Nov. Although promised a rise of temperature during the night with rain clearing early in the day, we got virtually no rain till after lunch & had quite a nice mainly sunny day, though SW wind was at times damp & cold. The most remarkable event occurred at 10.15 AM. When coming quickly round the S. side of the house I found a Bumble Bee attending to the flowers of a yellow Nasturtium which had recovered from the frost of 8th–9th. It was just departing as I saw it, & there was evidently no nectar to be got from the flowers & I could not be sure of its identity. It might have been the large ♀ lucorum seen on 6th Nov. or the ♀ jonellus or the ♀ hortorum seen some little time ago. I thought it appeared rather large for jonellus, but I did not get a proper look at it as it flew too quickly away. It could not, however, have been anything but one of the three. Later I searched the garden but never saw a sign of it.

12th November, 1964.

After a dry & rather windy night (South) we had another sunny, but cold day. In forenoon I did a few small jobs in back garden, but a return of the sciatica &c, made me decide to spend the rest of the day in the house.

13th November. The night was clear & starry at first, but by 6 A.M. it was raining heavily & the rain continued till 12.30 P.M. Then the afternoon was dry but cloudy; wind at first S, but veered SW as glass turned & began to rise after a steep fall as trough passed eastwards.

In evening Stanley Shillen, Sam Armstrong & wife arrived about 7 P.M. & left for Belfast about 10 o'clock. Shillen was in Belfast from Glasgow to give a talk last night to students of Stranmillis Training College, where he was formerly on the staff & Armstrong is at present.

14th Nov. After a severe gale at night, with at least one heavy squall of rain, we had a gale or at times severe gale, but really no rain & much blue sky to W. though cloud over the hills.

15th Nov. Sunday. After a mainly dry, but stormy night, the barograph rose swiftly all day & we had much sun, with SW wind till late afternoon, when wind backed south & it became overcast, with rain & rising wind commencing about 5 P.M. A girl whose adv. had appeared in The Mourne Observer last week asking for work to type at home in the evenings arrived by arrangement at 2.45 & after some talk I gave her a small MS. on the species of Helorus found in Ireland. Her name & address are:- Kathleen McAleavey, Stang, Cabra P.O., Newry. If she is able to do the work I want, she will be very useful & I have various other bits of MS. almost ready for her.

16th November 1964.

A squally day after a squally night with heavy rain in early part of night; we have had only light showers & there was much sun. Sun either dipped behind St. Donard or only just cleared top, but hidden by cloud.

After dinner we planted the rose, "Happy Event," from Dobbie's given us for our Golden Wedding in Sept, by Daisy's niece Mrs Crawford of [illegible], Co. Tyrone; it arrived a few days ago. We planted it in the half moon bed opposite Anderson's garage & removed a clump of Pyrethrum to make room for it.

17th Nov. After a very wet night, but no gale, we had a calm day, with much light fog & no rain. Cold in forenoon, but much milder later, but fog never really cleared until after dark. In afternoon at last got the cuttings of the carnations inserted in border above the raspberries from which I had dug the old plants on 24th Oct. (c. 107 cuttings). I believe the sun to-day passed behind St. Donard but the view was stopped by mist.

18th Nov. After heavy rain during night, we had a damp misty day with variable light breeze or none, & a light drip off & on all day, though afternoon was almost dry, during which I went up Drinnahilly boundary a couple of hundred feet & collected some "sticks" for the fire. On the way I stopped a few minutes at my favourite Laurel & took by hand & bottle the following Hymenoptera I saw sitting:—

Stenomacrus ventralis, very dark 1♀ (also seen I think!): ant. 23.
Plectiscus humeralis? ♀, ant. 17.
Chalcids 3♀

19th Nov. A most glorious day after a calm & dry night & little dew. Not a cloud & warm sun till it passed behind Slieve Donard at about 1.30 P.M., but actual time not noted! Cut front lawn in forenoon & back lawn after dinner. No sign of [illegible].

8
113 20th & 21st November 1964.
Both days mainly cloudy, very mild & very damp, like a thawing day, but no rain. Vernon John in garden, finished cutting front hedge & cleared up banks of wee burn in back garden opposite 'Cochrane' (now occupied by a family called [illegible]) on 21st. I called on Mr Caldwell in forenoon & while there a worker Vespa vulgaris came buzzing round us. The first flower on the smaller Christmas Cactus opened today 21st & the second flower on the larger plant. Had bonfire in afternoon of 21st.

22nd Nov. Sunday.
A mild dry day after a dry night, with some sun in early forenoon & rather fresh SW wind though a trough promised in yesterday's forecast & again this morning, but it had not arrived by dusk, though it looked like rain. In forenoon I walked to ruin of Dunord Lodge & up to the Fern-leaved beech & gathered cones under the big Austrian Pine. The forestry men have now cut all the laurels & rhododendrons behind the "tunnel" & "grotto" as far west as the big trees & almost down to the main avenue, in preparation for replanting, but so far they have not cut the larger trees, though none are of any great age or value.

23rd Nov. A dry day with some sunny intervals in forenoon, cloudy later, with light chilly W. breeze. Spent forenoon clearing sides of the wee burn opposite Kirkmains & Bow's & in afternoon gathered sticks on Drumhills. Song Thrush singing in back garden at dusk.

24th Nov. A very mild day with hill-fog & occasional drizzle on the hills, with SW wind, strong at first, falling in afternoon, after a dry night. In forenoon I had a bonfire & in afternoon I collected pine leaf mould in Drumhills plantation. Daisy saw a wasp in garden!

25th November 1964. 114
Another mild calm & mild day, with some rain in forenoon, after a dry & calm night. In forenoon I scuffled the ground around the Rhodos. & Azalea along path by Anderson's hedge, put some small squares of wire netting between the shrubs & scattered the pine leaf mould over them which I collected in the woods yesterday. In afternoon I went to Bank & Po Office!

26th November. After some rain early in night, we had a cloudy day with strong S-SW wind & rain coming on just after midday & very heavy between 2 & 3 P.M. Then wind veered W-NW, glass suddenly rose & blue sky came up from NW & temperature dropped considerably. Spent forenoon trimming sides of the burn in front garden from garage to the big ash tree. In afternoon, after sky cleared, I had 3/4 hour walk in the woods.

27th November. After a cold night with strong W. wind, but no frost, we had a bitter cold day with strong W, veering NW, wind; a severe squall & shower passed over about 11 AM & left upper 500 ft. of [illegible] Dunord with light cover of snow; another at 1.30 P.M. left it white down to 1500 ft. Made bonfire at 10 AM & in spite of showers got all the 'rubbish', cut yesterday along the burn, burnt by dinner, 1.0 P.M. Did nothing in afternoon but watched out for coal man, who did not turn up, after asking us to accept consignment ordered for 30th! Found two dead specimens of Silpha rubrotundata dead in sitting room & two nights ago I found one living in same room & put it out of the window; no doubt they were brought in with firewood! Two were black & one brownish.

28th Nov. Snow down to about 1,500 ft. by dawn, but we had a sunny forenoon during which I continued the cleaning up of the burn in front garden; the afternoon was stormy & wet (W.) with frequent severe squalls of sleet. Frozen sleet on plastic pond & tubs in morning!

29th November 1964. Sunday.

An all sunny day from sunrise till sun went behind Thomas Mt, & then came out for a few minutes between Thomas & St Donard, after a clear cold night, but no frost. Wind light, NNE, cold, falling gradually to calm in evening. In forenoon I had walk & collected cones in wood at Donard Lodge. In afternoon I wrote Miss K. McAlinney & sent her my MS. on Irish [illegible] lists, having received her typescript of The Irish species of Helorus two days ago.

30th Nov. After a clear starry night, but no frost, rain, sleet & snow on high ground fell from about 7AM till 10.45, then sky suddenly cleared from W & we had a cold sunny day till sun went behind the hills. The afternoon was dry, with cold & rising W. wind. Nothing doing in garden. Labelled & put away the 9 specimens of new species of Hemiptera recently identified by Dr A.M. Massee as additions to Halbert's Irish List of 1935, but three of these are splits of old composite species & are not probably not really new to Ireland.

1st December. A sunny forenoon, after a heavy shower about 7–8 AM, but a drizzly shower of melted snow just after noon, but in spite of this I got most of the rubbish cut along the burn in front garden on 25th Nov. burnt in afternoon: wind N-NE, light, cold & damp, but no frost last night. Cut up some of the old willow.

2nd Dec. Not so cold, but cloudy all day, with occasional light drizzle & W. wind, strong towards evening as trough approached & rain fell. In forenoon I collected sticks in plantation.

3rd Dec. Cold & drizzly with W–NW wind all day, so nothing doing.

4th December 1964.

A very cold dry day after a similar night, with cold raw N.W. wind. Heavy snow in Scotland!

5th Dec. I had bad bleeding this morning after a visit to "the toilet", as I had had likewise on three previous days, & went into Downpatrick Hospital at 12 noon for examination & observation!

6th (Sunday)
7th
8th — Remained in hospital till 5 P.M. on 9th, when fetched home by
9th — Mr Joe Anderson, our neighbour.

10th Dec. An entirely sunny day, after broken & stormy weather since 3rd. Wrote letters & took things easy.

11th Dec. A lovely sunny morning, after a clear starry night & ice on tub & pond. Sun went behind Thomas Mt. at approx 6 minutes to 1 P.M. but cloud prevented me seeing the actual second of the eclipse! The day gradually deteriorated, & wind rose & rain came on about 5.30 P.M.

12th Dec. After a very wet forenoon following a similar night, we had a dull but dry afternoon. In evening Philip Wood brought about 100 or more transparencies & gave us a picture show of the trip he was on last June in the E. Taurus Mts. in Turkey: these were mostly of scenery & plants!

13th Dec Sunday. After more rain at night we had a good deal of sun in forenoon, with strongish S. wind; an prolonged & heavy shower between 1.30 & 2.30 P.M., & then a fine, cold, windy afternoon.

14th Dec. A clear, sunny, cold day, after a starry night with slight frost, wind light & cold, SW. Light snow on summit of Slieve Donard. In forenoon I brought in fuel & in afternoon I wrote letters!

15th Dec. My 81st birthday. A dry cold day, after slight frost at night. [illegible] of sticks in forenoon & had a walk of about a mile in afternoon!

16th Dec 1964.

A fine cold day, with cold SW. wind & considerable sun, after very heavy rain during early hours of morning, before 6 AM, but no frost.

17th Dec. After rain in very early hours, we had a dull day with light NE wind, falling calm in afternoon & during most of forenoon we had a steady drip, but afternoon dry. A Peacock Butterfly in hibernation under back window in garage has been there for quite a month since I first saw it & has remained in same position!

18th Dec. A cold damp day, without any sunshine; wind SE light in forenoon, but stronger & [illegible] in afternoon. [illegible] snow fell during most of forenoon & again in afternoon. Did a few things in garden in forenoon & had an hour's walk in afternoon to Dowend Lodge & home via The Green Hill.

19th Dec. Another dull & dark day, calm, with alternating E & W draughts, but no drip till after 3 P.M. In afternoon I spent 1½ hours in plantation & collected a few sticks.

20th Dec. A very fine sunny day, after a clear moonlit night but no frost; wind nil. Left home at 10.30 & returned from walk (Sunday) of about 3 miles in Brennanstown plantations at 12-25 pm. Otherwise did nothing!

21st Dec. NE light breeze, with some sun, but also a drift for several hours after midday, following a dry night with no frost.

At bank & P.O. in forenoon to get postal orders to send Miss McCleary of Stang for typing (11 pages @ 2/- page + 3/- postage) my MS. on Helorus & [illegible] in Ireland. With P. Orders I sent her my MS. on the species of Eclytus so far found in Ireland.

22nd December 1964

A calm, cold dry day, with NNE wind after a dry night. In forenoon I did odd jobs in garden. George, Margaret, Dora & Dawson arrived at 5 P.M. to stay till Xmas Day.

23rd Dec. Another dull day, with light variable breeze & nearly raining in afternoon when George & family & I went to collect [illegible] of Dowend Lodge.

Not so cold! George fixed the thermostat in greenhouse so as to reduce temperature to 48 F from 54 F at which it had been fixed since autumn.

24th Dec. A very nice mainly sunny & dry day in spite of a poor forecast; dry with light N. wind. Did nothing!

25th Xmas Day. A fine clear sunny, cold, forenoon, after a cold night & some slight snow: barometer high & very steady for some days. Numerous snow showers fell in afternoon & still heavier shower after George & family had left us for Ballymoney, but no fall in glass.

26th Dec. After a cold night, snow began to fall on the hills about dawn & by noon the hills were white above 500 ft, but here we had only sleet & rain, with moderate SW wind, which fell calm & rain stopped about noon & from then we had an E breeze & then flat calm for rest of day, while barograph continued to fall well into the afternoon, but no further rain before dark. Wrote letters to Jennie Lee, Farrington, Miss Roche & Dr Lucas of Nat. Mus. Dublin & sent him my MS. on the supposed Irish wild cat invented by R. F. Scharff & named Felis ocreata Gmel (Proc. R.I. Acad., 1906) in order to avoid possible objections from the powers that be in control of the Museum after the publication of my notes in I. Nat. Journal.

27th Dec. Sunday. After a cold night, calm, & with slight frost early, we had a dull, cold, calm, [illegible] morning, with rising glass. After pretending to clear it got darker & darker & with light NE wind snow fell for a couple of hours around noon to a depth of about an inch. The afternoon was dry & calm & no further snow fell before dark & there must have been a slight thaw I think.

28th December 1964.
After a fairly hard frost, we had a sunny forenoon, with cold SW. wind. The afternoon was cloudy, but dry, with falling glass & wind increasing to strong by tea-time. Called on the Misses Murray & took letter from Doris to Dawson & went for a short walk before dinner. Not out in afternoon. Yesterday's snow almost gone in garden, but the hills quite white above 1,000 ft.

29th December. Weather turned milder during night & rain fell & cleared the snow from all low ground & much of that on the higher ground likewise. Although it was never dry all day, we never had heavy rain, but wind was at times very strong from south.

30th December. A cold bright sunny day with strong to gale SW. wind, after heavy rain during night. In afternoon I collected sticks in the Drumnahilly plantation.

31st December. A wild day with gale or gusts to gale force from W, some slight showers & one prolonged & heavy about 2 P.M. At dinner time we learnt that Mrs Caldwell had died suddenly this morning. Afterwards I called on Mr Caldwell & then went on to Mr Lowry to break the news to him & home at 4-30 P.M.

1965.

1st January 1965.
A very cold sunny day with lightish N. wind, after a slight frost. In forenoon I cut some bits off the fallen willows in the wiggy & in afternoon I collected sticks in Drumnahilly plantation. On returning about 4.15 I found Bob Carlisle & Fairley of QUB had arrived about 3.30. They left at 6-30 for Belfast. J.S. Fairley is interested in mammals & particularly in the Field Mouse (Apodemus,) about which he has published notes in I. Nat. Journal.

2nd January. A similar very cold & sunny day after a frosty night. Wind light N. & falling calm in evening. At brick in forenoon & collected more sticks in afternoon.

3rd Jan. Sunday. Another clear, very cold, sunny day, with light N-NW. breeze after a hard black frost. In afternoon went with Mr Caldwell for 1½ hours walk in Drumnahilly plantation.

4th Jan. A similar cold & sunny day, after two severe frosts, wind light & westerly. Received typescript of paper on Ephydra (4 pp.) from Miss McCleery & sent her p.o. for 8/- as well as MS. on Proctotrupoidea (24 pp.) (will post more tomorrow!). In afternoon spent 1½ hours in Drumnahilly plantation & brought home some sticks. Glass very high, 30.6, but milder weather promised for tomorrow, though not much sign of a change so far.

5th Jan. A cloudy, dry, day & much milder than of late, with no frost during night. Wind SW. light in forenoon, fresh later.

6th Jan. Mild with drizzle or rain all day, with strong to near-gale SW. wind. Left home at 10.30 AM. for Belfast driven by Dr Gibson's son John, to R Victoria Hospital to get radium treatment for the "lesion" on my forehead which was supposed to be eczema & which has been there for at least 10 years.

6.1.1965, cont.

After about an hour in R.V.H. I was informed by the doctors that I must go on to the Cancer Hospital at Purdysburn to get the treatment. So on we went by Balmoral, Shaw's Bridge, to Purdysburn & after 7 minutes "radio-therapy" left for Newcastle & home at 1.10 P.M., where George had arrived for lunch.

By morning post received a bill from Mr J. S. Boyd (surgeon) of Downe Hospital for £7-7-0 for prof. services when I was in the hospital in Dec. last before Xmas.

7th Jan. Very mild, after a "warm" night, with S-SW wind & ± drizzle & hill fog all day. In afternoon collected sticks.

8th Jan. After a calm, wet & mildish night, we had a nice sunny day, with fresh W. wind. Some showers passed over the hills, but only a few drops of rain fell here. In afternoon I collected more sticks in the wood. Received my copy of Baynes's "Revised Catalogue of Irish Macrolepidoptera" published by Browne & Nolan, Dublin, 22/6d. It would appear to be excellently prepared & to contain the maximum information allowed by the space available.

9th Jan. A filthy day. Rain began about 5 AM & continued till dark, sometimes heavy & sometimes less, sometimes sleet & sometimes rain; snow fell on Sl. Donard above 1500 ft. Wind nil at 8 AM, but during middle of day strong from SW-W, again dropping calm in evening.

10th Jan. Almost the same as yesterday, but milder & rain not so heavy! Sunday. In afternoon walked to Donard waterfall & home via the Green Hill. Sent cheque to Browne & Nolan, Dublin for two copies of E.S.A. Baynes' "Revised List of Irish Macrolepidoptera" — one copy to go to J.V. Peters, Sydney, N.S.W., Australia.

11th Jan 1965.

A very nice nearly all sunny day, except for a strong gusty SW wind which kept down temperature, after a mild & windy night. All showers were forecast none fell in this district during daylight, but rain forecast for tonight once more. The snow on Sl. Donard, &c, now reduced to a few small drifts. In afternoon I gathered sticks in the plantation.

By morning post I received a letter from a Mr R.E.T. Howitt, of "Farndon", Newark-on-Trent, Notts, asking for cuttings of Salix hibernica & offering in exchange a long list of willows, from which I will ask only for two, namely, "Salix grahami (herbacea × myrsinites)" & "Salix sadleri (herbacea × lanata)" & tomorrow will send him slips of hibernica from Ben Bulben & The Glenans!

12th Jan. A bright day, with very cold & fresh SW-W wind, with some snow-hail showers over Sl. Donard, but no real rain here till after dark, by which time barograph was rising rapidly & wind had increased from W. to near gale with steady light rain after some rain during night. In afternoon collected more sticks in plantation. Wrote Mr Heal about Wood White butterfly & sent Nixon a Cryptocephalus for his opinion taken in Drinnahilly plantation on 14.7.64.

13th Jan. A dreadful day of severe gale & torrential rain all morning, with rain moderating in afternoon, but gale (W) worse & at ~~7~~ 6.30 P.M. electric current failed for half-an-hour, after several severe surges of our light. Flooding as usual in Slievemoyne & St. Horragh Park just below us, & Tullybrannigan Burn at Bryansford Road.

14th Jan. Much damage done in Ulster, Glasgow, &c, by last night's storm & cross-channel ships from Belfast & Larne could not go out that night, a "prefab" with church in Belfast wrecked, &c, &c. Wind W & very cold, moderate, with much sun here today. Snow showers passed over Sl. Donard in early part of the day, but only a few sprinkles fell down here. Received from Mr. Roche (Nat. Mus. Dublin) some cat bones, including one from Ballinamintra Cave, Co. Waterford, which I had asked for information about.

15th Jan. '65.

A cold day with strong cold W. wind which fell in evening; rising glass & snow showers over the hills, but only slight down here; considerable warm sun about mid day in shelter, after moonshine & some showers at night.

At bank in forenoon & returned cat bones (registered!) to Nat. Museum, Dublin; In afternoon collected sticks in plantation.

16th Jan. Still another wet Saturday! After rain at night we had heavy rain most of the day with strong SW wind. Cold early, mild during middle & colder again in evening, with glass falling at various speeds throughout. Only went as far as the post box! Two peals of thunder 8-9 P.M.

17 Jan. Sunday. After semi gale & (SW) rain during night, we had continuous rain, very heavy in early evening, all day, with strong to gale SW, later W, wind. Wrote Dr Mauser of Prague.

18th Jan. Only slightly better than yesterday, after snow on hills during the night. Snow showers passed over the hills at intervals most of the day, though I did get a walk in afternoon to collect "faggots" in the Drinnahilly plantation. It was cold, with fresh W. wind, & the showers fell down here as rain, sleet or snow, but last never long.

19th Jan. "A pet day" after a ± clear frosty night: nearly all sunny & windless, but glass falling in evening, & snow, rain, with gale promised. In afternoon I collected faggots in plantation.

20th Jan. After a wild night with sleet & rain squalls from NE the day started so badly, but rain ceased about 10.30 AM & by early afternoon the N-NE wind dropped & we had quite a nice but dull evening, with glass rising rapidly all day, but rain & gale promised for tomorrow after a ± dry night.

21st Jan. 1965.

Although promised snow & rain only none arrived till 5 P.M., but SE wind fairly strong all day, after a ± clear frosty night, though frost vanished about 9 AM when wind arose it had been calm earlier.

By parcel post I received a parcel & nice healthy rooting slips of Salix sadleri & Salix moorei from Mr Garrick, of Glasgow, which he had ordered to be sent me by "Stuart Boothman, Nightingale Nursery, Maidenhead." These I have heeled in under bench in greenhouse temporarily! In afternoon for first time for over a year Daisy came with me for a walk & we went up to foot of The Green Hill, then west & on to the middle avenue & back along it almost to Donard waterfall & home through the Park!

Salix [illegible] received on 29th see p. 156 →

22nd Jan. After gale with rain, sleet & snow in early part of the night we had a fine day, with strong S-SW wind & one slight shower at 1 P.M. with sleet & snow. Quite a nice wintery day! In afternoon I had a walk in plantation & collected faggots.

23rd Jan. A model Saturday, with continuous rain & rising temperature from 10 AM onwards with SE-S wind falling after sunset.

24th Jan. Sunday. A most perfect early spring day! No wind & all hot sun till sun passed behind Slieve Donard. In forenoon I left home at 10.40 & walked up The Green Hill & round S. side of Drinnahilly & home, two hours at my pace, without halting & crossing the 700 ft. contour at highest point. I visited the plants of Carex arenaria & Erodium cicutarium on journey & made the following notes:—

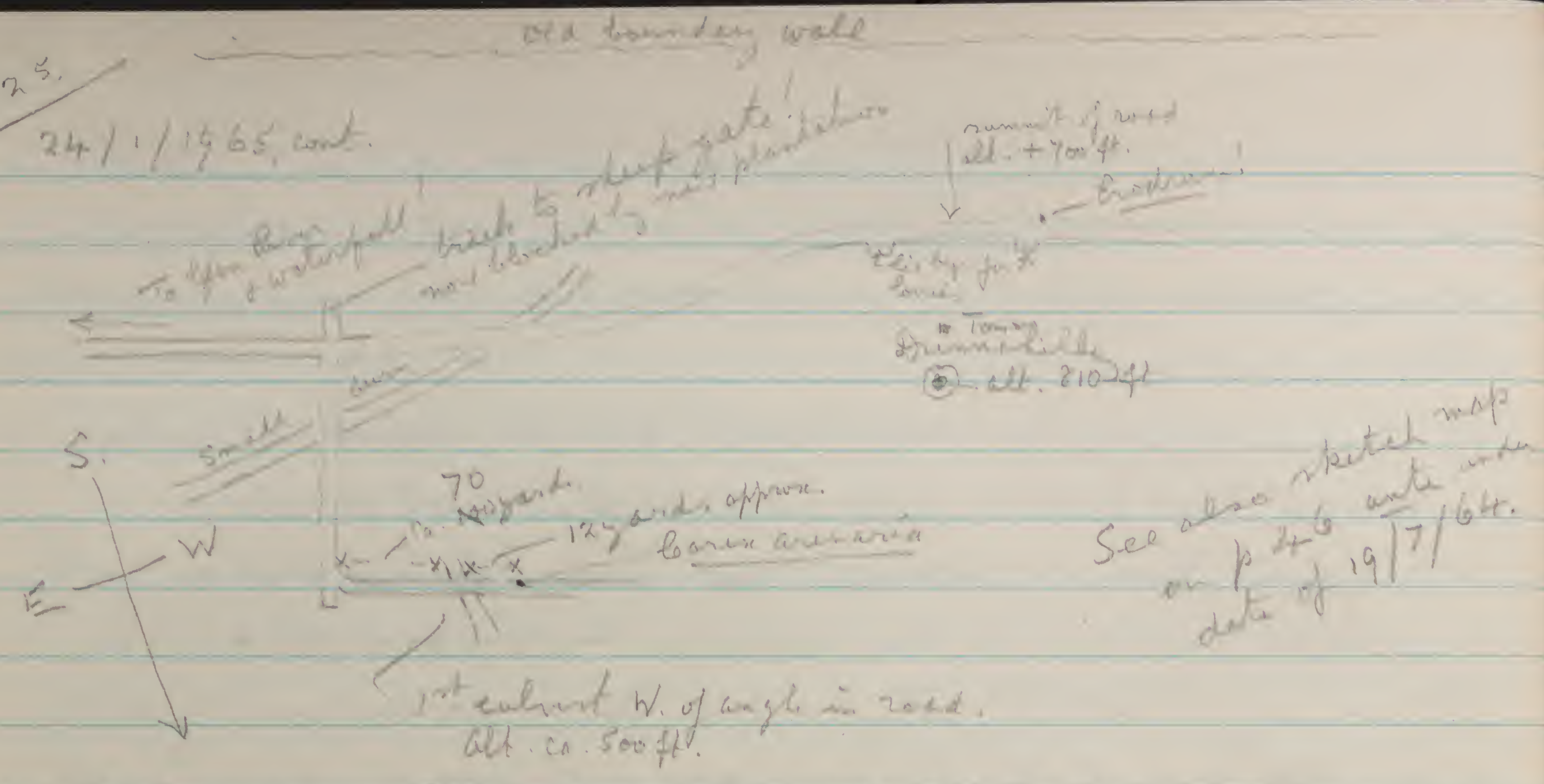
Carex arenaria: now has spread & covers about 2 yards on side of road!

Erodium cicutarium: no from 12 to 24 young & old plants but has not spread beyond the couple of square feet of roadside during last year.

On next page I have drawn a sketch map of where these plants grow.

The first Snowdrops open today in sun!

24/1/1765, cont.


Old boundary wall
To Ylfin Burn & waterfall!
track to sheep gate! now blocked by new plantation
summit of road alt. + 700 ft.
Erodium!
Thistly lane
Tommy
Drumnahilly
alt. 810 ft
S.
W
E
70 yards.
12 yards approx.
Carex arenaria
1st culvert W. of angle in road. Alt. ca. 500 ft.
See also sketch map on p 246 ante under date of 19/7/64.

25th Jan. '65. A damp foggy day, after a similar night, without wind, but NE cloud drift, clearing only in afternoon. Although no rain fell here the air was very nearly saturated. In forenoon I collected "pine"-leaf-mould in plantation just W of the Green Hill, beneath Douglas Firs, to enrich the plot where I intend to plant the Salix & Salix cuttings received last week from Mr Garrick & Mr Hewitt (see pp. 124 & 122) In afternoon I dug in the leaf-mould & made up the little plot on W. side of the short path leading from upper path in back garden to Anderson's fence.

26th Jan. Entirely dull, after a dry calm night, no frost here, with NE low cloud drift, very damp, but not too cold: in afternoon there was a slight drip most of the time when I had my walk in the plantation & fetch home some faggots.

27th Jan. Much the same as yesterday, with light NE wind & snow showers over the hills, after heavy rain (snow on hills) & at least one flash of lightning around 4.30 AM. In afternoon I had walk in the plantation & collected faggots.

28th Jan. '65.
A dry day after a frosty night, with NE light wind, snow showers about but none down here; cold & no thaw till after midday; some sun in forenoon. In afternoon Dorin came with me into the plantation & I fetched home some faggots from my cache!

29th Jan. Another dry & cold day with NE light wind & considerable sun in forenoon, but cloud cap on Sl. Donard prevented me seeing of sun above its summit as expected. In afternoon I fetched more faggots from my cache in plantation. By morning post I received Mr Garrick's 3rd Salix (S. grahamii!) from W. E. Th. Ingwersen Ltd. Birch Farm Nursery, East Grinstead, Sussex. A nicely rooted plant about 10 inches in height & planted it in greenhouse beside S. sadleri & moorei, which came on 21st Jan. (see p. 124, ante!).

30th Jan. A cold sunny day after a hard white frost; ice on tubs fully one inch thick. In afternoon I brought back the last of the faggots I had collected in my cache in Drumnahilly plantation.

31st Jan. Same as yesterday after a hard frost. Light NE wind. Sunday. In forenoon I had 1½ hours walk in sunshine without a halt: up the Green Hill to new bridge over Ylfin Burn & home via Lindsay's Leap & ruin of Donard Lodge. About 1 to 2 inches of snow round back (S.) of Drumnahilly, so I turned E. instead.

1st February, 1765. After another very hard frost & calm starry night we had an all sunny forenoon with a mere westerly draught, during which I collected 3 bags of leaf-mould from conifer (Douglas Firs) plantation just W. of The Green Hill, but as wind backed NE a cloud formed over Slieve Donard which cut off the sun all afternoon & it became very cold. Dorin & I went in afternoon to Donard Lodge woods where the Forestry Dept. have cut out Laurel & Rhododendron preparatory to replanting.

2nd February 1965.

A virtually sunless day, owing to dense gathering of smoke-haze over Slieve Donard & SE wind, after a mild & dry night with no frost here. In afternoon I collected 3 bags of leaf mould (beech, &c) on W. side of Glen River (waterfall).

Beetle taken at light on table 8 P.M. Probably from leaf bags brought to house today!

3rd Feb. Another cold dry mainly cloudy day, after a slight frost. Wind light, mainly W. Spread two barrow loads of leaf mould round Rhodos. & Azaleas near Anderson's garage in forenoon. In afternoon went to see Mr. Liven & returned via Tipperary Wood. Saw male Hazel in flower in Liven's hedge.

4th Feb. A lovely, cold sunny & calm spring-like day, but bare soil in garden hard frozen for depth of 3 or 4 inches & could not dig or weed. Birds singing, jackdaws fighting for Bailey's chimney-pots, where they have nested for several years. First flower actually open on big clump of Crocus tomasinianus, Winter Aconite almost in flower, a few yellow crocuses & buds showing colour on red Camellia opposite hall door. Returned Griffiths' [illegible] received on loan in Oct.

5th Feb. A still more perfect spring day, after frost, with a rapidly rising temperature. In the sunny forenoon I gathered 2 bags of leaf mould from Donard Fir plantation & in afternoon I went up to see how Pinguicula lusitanica was getting on above the Shepherd's old cottage & saw three plants in their usual rosette. This species, unlike vulgaris & grandiflora, does not retire for winter into a ± dormant bud.

6th Feb. A mild, calm, entirely cloudy day, after a ± mild night, but still much snow on hills above 1,000 ft. In afternoon I went to collect two bags of "chips" on high road SE of [illegible].

7th February 1965.

Sunday. Mainly cloudy, calm to light NNE wind & mild, but some sun about noon & in sheltered nook it felt like April & two yellow crocuses, which were only showing colour two days ago, were almost wide open.

In afternoon Daisy & I did walk through the park to [illegible] field & home via The Green Hill road. In forenoon I winter-pruned the [illegible] apple & pear trees.

8th February. After a night of damp fog, we had a sunny forenoon, but very cold NW breeze; the afternoon became cloudier & much warmer, though entirely still.

In forenoon I transplanted the fastigiate Cypress given me 2 years ago by Mr. Harding of Stranmillis College, Belfast, from front garden to centre of the mound where the old greenhouse stood: it is now about 5 ft. in height.

In afternoon got a lot burnt in bonfire!

9th Feb. After a dry & calm night, we had a cold WNW wind rising in evening to "moderate", with very light drizzle blowing in the wind from 10 AM to 2 PM but never wetting the pavements, so that I had a bonfire in afternoon. In forenoon I dug over the area of "the mound" disturbed in planting Mr Harding's Cypress yesterday. Later I cleared & partially dug the plot next the Scotch willows, where [illegible] had "cabbages" last season — a stiff job owing to the willow roots which extended the full depth of plot! At 8.30 AM we had blue sky & warm sunshine & sunny spells continued at intervals till sun sank behind Slieve Commedagh.

The Lesser Celandine by the wee burn in front garden has at last thrown up 3 flowers & these may have been open yesterday as I forgot to look for them.

10th Feb. Another cloudy dry day with light cold NW wind. No sun all day! After a dry night, with no frost. In forenoon continued digging started yesterday!

11th Feb. After a calm night & light drizzle at dawn, we had a most beautifully sunny forenoon, but anticyclone moving away off SW Ireland & glass falling, so that by afternoon it was cloudy & light rain fell between 3 & 4 P.M. & by 7 P.M. wind was fresh & squally, though rain had ceased & moon shining. Planted out the dwarf willows recently received from Mr. Garrick & cuttings from Mr Hewitt. See pp. 122, 124 & 126 ante.

12th February 1965.
After a dry, cloudy night with falling glass as large cold depression came down from Iceland towards N Scotland, we had a mild blustery day with strong SW-W gusts, but no rain fell till afternoon when a few showers passed over. Snow promised for high ground during night.

13th February. Another blustery day with strong NW. wind & snow showers on the hills, but nearly all rain here & wind died down in evening, with glass rising once more.

14th Feb. Sunday. After a dry night with slight frost, we had a mainly sunny day, with keen N. wind, falling light in late afternoon.
In forenoon I left home at 11 A.M. & walked up The Green Hill to new gate, along middle road, up path to upper road by "the waterfall of bricks," then W. to tree of the arrow & up path to the unfinished road on N. slope of Drinnahilly, round S. side of same & home by new road & Drew's Path & down The Green Hill. Time 1 hour & 23 minutes i.e. home at 12.23 noon.

15th Feb. A dry day here, after a dry calm night, with sun & cloud & a cold but light NNW breeze, falling & backing SW in evening. No frost.
In forenoon I spent some time in back garden raking path, & coated with moss & now loosened by recent frosts. In afternoon Mr & Mrs Fred Harding called (of Stranmillis T. College, Belfast) at 2 & left at 4-30. As usual Mr Harding brought me plants & this time seedlings of Rhodo. sino-grande & Rhodo. crassum.

16th Feb. A calm & dry day, but after a sunny start till 11 A.M. it was cloudy for rest of the day, after a dry night. Milder, yet the slight NW zephyr was chilly.
In forenoon I hoed new strawberry beds now covered with seedlings of Poa annua from compost heap: these come from the lawn & the seeds not killed owing to the blackbirds scratching the compost & so prevent it heating.
In afternoon I had a bonfire of sorts!

17th February 1965.
Similar to yesterday, though milder & less sunny. Wind very light between NE & NW.
Collected a lot of rubbish & had bonfire all afternoon. Otherwise did some hoeing & raking. By morning post received typescript of my Irish List of Proctotrupoidea from Miss K. McAleavey of Stang & sent her £3-3-0 for the 30 pages, 1/- post & 2/- paper.

18th February. Similar, but no sun. Stationary, as barograph climbed up to 30.8, after a calm & cloudy night. Almost drizzling at times & rain in Belfast according to George who was here for tea & saw the very light drizzle on way home. Wind a mere NW draught. In forenoon I took off with shears the old leaves, &c. of sedges, ferns, spurge, & other plants & in afternoon I had a really good bonfire.

19th Feb. Similar & sunless, after a dry & frostless night, but NE wind cold & somewhat fresher in afternoon: a little drizzle between 1 & 1.30 P.M. In forenoon I spent 1½ hours picking moss out of clumps of Sax. oppositifolia in rock garden, while in afternoon I dug part of the new plot in back garden where Daisy's annual vegetables were. The soil is now in beautiful condition!

20th Feb. A cold blustery day with NE-E wind of almost gale force, falling light in evening: except for a couple of short sleet showers before 11 A.M. dry, after a dry frostless night. In forenoon I went up the plantation to new, topmost road E. of Drinnahilly to fetch home several chunks of timber left after the last thinning of the plantation in that area. Did nothing in afternoon!

21st Feb. Entirely cloudy with light but bitter cold E-NE. wind after a similar night. In forenoon I did some cleaning up in garden & in afternoon some typing so that I was able to get ready for post my MS. (typescript) of List of Irish Proctotrupoidea for Nixon.

131. 22nd February, 1965.

More like a spring day than the last few, not so cold & with some sun, after a slight drizzle just after dawn dry for rest of the day; wind very light, NE. Spent an hour & all afternoon cleaning up in front garden on both sides of drive.

23rd Feb. A poor cold mainly cloudy day, with frequent very light drizzle & light NNW breeze. Finished the digging of area in main plot E of the cold frame, where Dering had her annuals & some vegetables last summer. Posted Griffiths the Documents he asked for in his letter of 16th & a few others.

Also wrote Miss K. McAleavey of Stang, Lisburn, to say I had decided I would have to type my own Hymenoptera papers in future.

24th Feb. Very cold NE breeze & no sun here, after a cold night but no frost & some showers of hail (& rain?), but mainly dry.

In forenoon cleared up the "firebreak" between rock-garden & back lawn & in afternoon scuffled path around fern end of the sedge plot.

25th Feb. Quite a nice & calm day, with some sun in afternoon, dry, but very cold, after very thin ice on tubs during night.

In forenoon I raked paths to get rid of moss, &c, & in afternoon I cut both front & back lawns with electric mower & then had bonfire. Both red Camellias (near Anderson, & in front of Hall Door with several flowers open & the Rhodo. "Apple Blossom" in NW corner of garden more nearly over & some flowers browned by cold night's frost.

26th Feb. Another cold but no frost at night, with stronger NW wind & one heavy snow shower at 11AM lasting half an hour; all sunny at 8 AM but mainly cloudy later, turning to showers. I cut up faggots in forenoon & in afternoon collected more "chips" & faggots along upper (new) road E. of Drinnahilly –

27th Feb. 1965. A very nice & calm & dry day, but not warm, as what little breeze there was (from NNW.) was an cold one, after a dry cold & calm night, but no frost. Just as I started to work in garden Miss Kirkland arrived & stayed till 12.45. In afternoon most time spent in listening to Scotland v. Ireland rugby match in Edinburgh, which Ireland won by 16 points to 6. 132.

28th Feb. Snow over N. of England & all Scotland, but like S. of England
Sunday
we had a most perfect & all sunny forenoon, after a slight frost, & the night. Leaving home at 10 AM, I walked up to the [illegible] cottage & round S. side of Drinnahilly & home at 12 noon.

In afternoon between 3.30 & 4.00 P.M. we had a snow shower which left the hills white down to the plantation, ca 600 ft, but none lay down here.

1st March 1965. Heavy snow fell during the night & in early forenoon but without wind, yet on garage roof the general cover seemed to be nearly six inches & in places, as on back lid of greenhouse, it looked more. The [illegible] & barometer turned up about 9 AM & the rest of the day was fairly bright, though we here had only a few glimpses of sun. Snow also fell all over Britain & far S. as Cornwall.

2nd March. A lovely bright, dry & calm day, with warm sun all day, but no general thaw!

3rd March. After a gale from S-SE snow or sleet commenced to fall about 4 AM & continued, with one interval about 9 AM, all day. Glass fell till about 2 PM, then rose slightly only to drop once more & then rise again, like this VV & it was during the second dip that the calm & dry spell occurred. Conditions very bad except in S. of England, specially bad in Wales. Stranraer boat cancelled, as is usual nowadays! In the '90s the old paddle boats never thought of any weather stopping them, but since the loss of the Princess Victoria about ten years ago caution has been the order of the day. Most of the snow in garden washed away by the sleet during the day.

4th March 1965.
After a cold night & some slight snow showers & fresh E wind, we had a dry day with a good deal of sun, but wind backing to NE, remained very cold, though wind moderated & fell calm in evening.
Have just forecast here fog tonight! Blizzard continued all over S. England & S. Wales.

5th March. An all sunny but cold day, with light N. breeze. After a clear frosty night: no thaw except in full sun & much snow still in back garden. At 6-30 AM. a small flock (9) of Lapwings flew over going west from the direction of the sea, followed a few seconds later by 3 or 4 more isolated birds, possibly tired!
I have suspected that some flocks of "thrushes" seen during the last few mornings might be Fieldfares making towards the plantations where little or no snow covered the ground, & today I saw two Fieldfares on the green at W. end of Causeway Road, which flew away from me in the bright sun thus exhibiting the characteristic blue-grey rumps. [illegible] Redwings!

6th March. Another entirely sunny day, virtually calm & sun really warm & yet little or no melting of the snow except in full sun. Nevertheless snow now gone from front garden & much of it from the back garden also.
In afternoon I walked past the cemetery to top of Tipperary Lane, over fields & Tullybrannigan Burn & home through the plantation.
While gathering willow sticks in the [illegible] this forenoon I came on a most perfect specimen of Hyalinia pura, the white type form! Kept it under the willow.

7th March. Sunday. No frost last night! A mild, but more cloudy & with rising SW wind, but quite dry & ± sunny about midday, when I had a walk beyond the Donard Falls & back at noon. Snow now all gone in back garden, but a good deal left in open spaces in the woods shaded from the sun & at 800 ft alt. Visibly less snow on the summits which two days ago were very white, but yet very little water in the Donard Falls.

8th March 1965.
After a calm & frostless night, we had a most perfect forenoon — calm, warm sun & generally mild, but a very cold E, on-shore, wind got up in afternoon & whilst it lasted a haze robbed the sun of its heat, & it was not so pleasant in afternoon. Calm ever now by 6 PM.
I spent the day — 11 AM till 5 PM (less meals) weeding & cleaning up the lower path & between path & lawn, in back garden. Daisy reported that [illegible] were just showing [illegible] above ground, though usually out by 7th March at latest.

9th March. Not as nice a day as yesterday & with a stronger & cold E wind, which did not drop in evening. Dry & after a dry calm night. No frost! Spent day, as yesterday, clearing up & got a [illegible] pile of rubbish for bonfire ("tomorrow I hope!").

10th March. Similar to yesterday, but milder & E wind less strong.

11th March. The day opened with rather thick smoke haze, but improved steadily & we had a very nice afternoon with considerable sun, whilst E wind generally dropped to calm. Spent day raking paths & raking grass, weeding & [illegible] off plants [illegible] during [illegible] & [illegible].

12th March. After a calm misty night, a drip started at 8-10 AM, & drizzle & heavy rain continued into the early afternoon, when things improved & we had a few glimpses of sun & no further rain & wind SE in morning, falling & veering round SW towards sunset. Cut up [illegible] in forenoon & after [illegible] had a [illegible] walk [illegible] before tea.

13th March. Another wet Saturday! After a dry misty night, drizzle started at 8-30 AM & continued all day, sometimes a light drip & sometimes heavy rain, & still drizzling at dusk. Wind very light variable, SE–S.

14th March. Sunday. A poor day with scarcely any sun, a good deal of light drizzle & considerable chilly & unpleasant southerly wind.
Had 2 hours walk in plantations before dinner. Sax. oppositifolia & S. apiculata now well out & first flowers on Rhodo. [illegible] about to open.

135 15th March 1965.

Another mainly wet day, rain coming on at 10 AM. & continuing till late afternoon; wind SE–S–to SW, gusty & fresh at times; mild.

The buds on Rhodo. Leucocarpum in greenhouse, which commenced to swell last October, opened (1 or 2) today.

16th March. A bright sunny day, but with fresh S–SW wind, was spoiled by three torrential hail showers; the first just after 11 AM. & the last at 2 P.M. Garden too wet for any real work!

17th March. After a fine night, at 8 AM we saw blue sky going away northwards & replaced by a moist SW air stream & a cloudy day following almost calm, mainly raining all forenoon, but no actual rain fell till 3.30 when a slight drip started & continued for half an hour, after which the air was foggy & very damp, till a clearance from the NW commenced about 6 P.M. In forenoon Brian Gunning & his wife (formerly Marion Forsyth) called for some plants for their new garden at Dundonald & left at 1.30 P.M. In afternoon I got 3 barrowfuls of moss scrapings gathered from paths in back garden & dumped in a hole I had dug in compost heap. While in garden about noon Brian spotted a Chiffchaff in the willows in the wuggy – not singing of course – which is quite an early date for this summer migrant, Chiffchaff.

18th March. Mild & only gentle W. breeze, but sunless & with a drip most of the day after 9 AM, though at times very slight, as when Daisy & I walked to the Linn & Falls & home via the middle avenue.

19th March. Another day of drip, drip, drip, after a damp calm night; almost calm, but very slight NW draught. Work in garden impossible, but had walk in the woods in afternoon when the drip was negligible.

20th March. A wretched cold & wet day from 10.30 AM. onwards with almost gales from NE–E–SE, snow all over N. England & S. Scotland & probably on St. Donard but low cloud prevented us seeing the hills all day; after a dry night.

21st March 1965. 136

Official Spring commenced today with the coming in of Summer Time! This was celebrated by the weather clerk with an easterly gale & rain above 2,000 ft, while sleet & rain & wind lashed our front windows all night & all day. Sunday. Posted letters & got in fuel & respected the day!

Took a [illegible] specimen of [illegible], Eastwoods promises [illegible] 9.3.65

22nd March. After a wet night we had an all wet day, not differing from yesterday in the complete absence of wind & therefore milder. Daisy brought in a few twigs of Salix caprea from the wuggy on which several of the catkins had odd flowers just open. Also one male catkin out on 23rd!

23rd March. After another very wet night we had yet another dark, gloomy & drizzly day; colder than yesterday, but E wind really strong. In afternoon I had a [illegible] walk in the woods, where every little rill & burn was filled with rushing water. First flowers on Sweet Violet open!

24th March. After still another wet night & early morning the wind rose & veered SW–W about 10 AM & we had a cold windy sunny day, with heavy showers at intervals, with hail at times, but afternoon (3 till 4.30) dry, during which Daisy & I had walk in the woods.

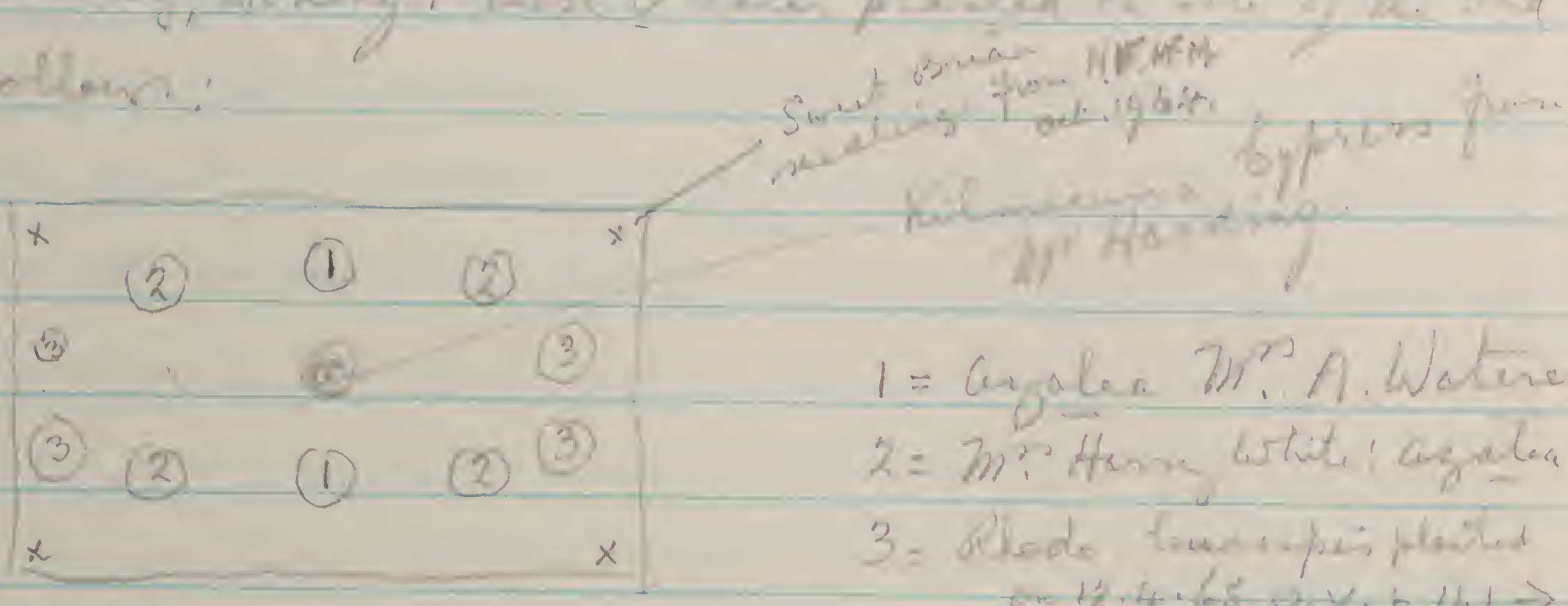
25th March. After a dry starry night, but no frost, we had a very cold bright sunny forenoon, with fresh southerly wind, but clouds came up from SW about noon & from 2 PM to 6.0 PM we had very heavy rain & [illegible]. Backing S. & becoming gale [illegible]. Rain stopped about [illegible] when [illegible] appeared – [illegible], wind then dropped, but barograph continued to fall.

In forenoon I got [illegible] out.

26th March. Mainly dull with drizzle & E wind starting to blow off the sea about noon & not a warm damp E breeze, but not a bad day. I started to make the four small yard-square plots on lawn along front drive into a continuous border [illegible] & got the first 1/3 de-sodded & dug between the Kilmarnock next gate & the Hawthorn, [illegible] (7 barrow loads) to compost heap in back garden.

27th March 1965

The day opened with little fog & light drizzle, but soon cleared & we had a misty warm & sunny midday & afternoon. Mr Bown brought me a sack of peat in forenoon & while he was here six Azaleas arrived by post from Knaphill Nursery, Woking: these I later planted on site of the old greenhouse, as follows:


Sweet Briar seedling from H.W.H.M. Oct. 1964.
Cypress from Kilmacurragh Mr Harding
1
2
3
x

1 = Azalea Mrs A. Waterer.
2 = Mrs Henry White: Azalea.
3 = Rhodo. [illegible] planted on 12.4.65. q.v., p. 141 →

The first Bumble Bees seen this season (several times during the day!) at flowers of Daphne blagayana — a ♀ B. lucorum! Daisy also heard the Chiff-chaff sing from the willows in the wood, i.e. ten days after Brian Gunning saw one in same place.

28th March A real hot summer day! Sunday. Temperature in greenhouse in afternoon with one door open was 75°F. Bumble Bees frequently seen in garden during the day (not too many); Two ♀ lucorum seen at same time on Erica carnea & many Honey Bees. The large pond [illegible] on plastic [illegible] was [illegible] first time 1965. Although greatly reduced by slugs the little plant of Soldanella has now got two flower spikes! See 23/2/65

Took superb specimen of [illegible] Bug in sitting room!

29th March Another still hot sunny day with S breeze, strong in forenoon, after a clear night. Dr Henry Heal & wife of Queen's University Belfast arrived at 2 P.M. & spent the afternoon. He is a chemist & interested in Lepidoptera & this year President of B.N.F.C. also very interested in nature conservancy. During day saw at least two Small Tortoiseshell Butterflies, 1 Peacock & many Bumble Bees, including one ♀ B. pratorum. Dr Heal will probably take up wasps & Bumbles.

30th March 1965.

Another dry & sunny day after quite a white frost, but cooler than last two days, especially in early part when we had fresh NE wind & some kind of smoke haze over St Doward, but in afternoon wind fell & sky cleared & we had continuous warm sun. In afternoon I did some "cementing" at the inlet to the pool in the woods & later helped Daisy to plant Shallots & Onion Sets in △ plot W. of the raspberries.

31st March. The day started dull & showery with a bitter cold easterly wind, but in afternoon sky cleared as yesterday, wind veered S. & fell & we had an all sunny, but cold afternoon during which E. N. Carrothers arrived with Mr & Mrs Harding of Belfast & spent an hour. In forenoon I cleaned up path above raspberries & removed all stones recently raked out of four adjacent plots & in early afternoon Sacked the [illegible] seedlings in upper plots derived from last year compost as "manure" for potatoes, peas, &c, before arrival of Carrothers. George came to tea.

1st April. Not a cloud in sky all day after a fine night, but light E. breeze kept temperature down somewhat. In forenoon [illegible] both strawberry beds & other plots & in afternoon I had bonfire & got all accumulated weed burnt. Saw a ♀ Andrena [illegible] & heard numerous Bumbles, but no wasp seen so far. On Monday Dr Heal & I wondered why the hibernated Peacock Butterfly in garage had not moved & decided to put it out & so when he lifted it — found it dead!! I had a letter from R. C. Faris just before he & family started for a month's trip to Holy Land in which he reported seeing a ♀ Bombus half-way between lucorum & terrestris at Shankill, Co. Dublin. He is too good a man to have been mistaken!

2nd April. Cloudy & in forenoon with light E to SW variable breezes, after a very white frost, but no ice on tubs. Afternoon sunny & warm. Spent day preparing ground opposite Anderson's garage for Daisy's Sweet Peas & tidying "half moon" plot.

13 ~~13~~ 3rd April 1965.
In spite of forecast we had a nice sunny day, though cloudy in afternoon as depression approached from SW.

In forenoon I cleared up path near [illegible], from steps at corner of house to the Buddleja. Took 2 first photos of the year season both taken of Camellia in front of hall-door, respectively 1/25 & 1/125 sec.

4th April. Sunday. A fine warm sunny day, in spite of forecast & glass falling during night, with light rain before midnight; only one light shower in afternoon; wind SE-E, moderate & chilly at times.

In forenoon I walked round S. side of [illegible] & home by path from new bridge to "Fog Roads" on W. side of the [illegible] field; I saw one flower on Wood Sorrel & red-cone (?) on Larch, & one branch of Sycamore at foot of The Green Hill just in leaf. Daisy reported Wood anemone in flower by the new house in back garden. Saw a "[illegible]" on path up the Green Hill on return journey.

5th April. After a misty night & dawn the sun came out about 10 AM & we had a nice sunny forenoon with no decided wind; about 2.30 PM a gloom formed overhead with the on-coming of a westerly cold breeze, & rain fell for a couple of hours while sun shone to S & W of us; the rain & gloom cleared about 4 PM. & we then had a sunny afternoon with clear sky & prospect of ground frost. I spent the day clearing the two small "[illegible]" in wuzzy — not [illegible] of operations since autumn, & eventually succeeded in getting the uppermost into operation once more.

6th April. After a slight white frost, we had a dull chilly damp forenoon, with drip & rain coming on at 2 PM. & continuing until evening; wind light & variable in forenoon, increasing a little & S-SW in afternoon.
First Bombus agrorum of season seen at flowers of Lithospermum.

7th April 1965.
In spite of forecast of cloud & rain from about midday onwards we had a most lovely warm sunny day till 7 P.M., except for a fresh very cold E. or shore wind for about an hour between 2 & 3 P.M. The wind was [illegible] & very light — a real growing day! First wasps seen during day — in forenoon a ♀ V. rufa & in afternoon a ♀ V. vulgaris, both at flowers of red Camellia in front of hall door. Had small bonfire & did some weeding in forenoon & afternoon cut both front & back lawns. Mr. [illegible] called in afternoon & reported he had many seedlings of Primula rosea from a second flowering of the plants last year; these are descendants of plants brought from Sutherland in 1954; mine are all dead a year ago.

8th April. A very nice almost entirely sunny day with light W. wind after a fine & dry night. Spent forenoon [illegible], bonfire & weeding. Spent afternoon cutting path in wuzzy, weeding, scuffling & bonfire. Saw a ♀ Bombus hortorum at flowers of "Lungwort" & ♀ Vespa rufa at Camellia in afternoon. Many Rhodos, Azaleas, & other things coming into flower. First flower out on Gt Stitchwort under hawthorn in wuzzy.

9th April. After a fine night rain commenced about 10 AM & S. wind increased to gale & we had a very wet & stormy day & also cold; but wind slackened & veered [illegible] in late afternoon & sky began to clear between 6 & 7 PM. Flowers torn off Magnolia & Camellias & damaged on Rhodos. &c. Rain very heavy at times.

10th April. After rain at night, the day opened with hill-fog & dense drizzle, but cleared about 10 AM & from that on we had a nice, sunny day, with a few short showers & a chilly, fresh SW-W wind.

In town in forenoon listening to Ireland beating S. Africa at Lansdowne Rd. Dublin; in afternoon & later got pipe feeding the [illegible] pool in back garden into working order once more. About a dozen flowers on Gt. Stitchwort in wuzzy — the first seen on 8th April.

13 12th 11th April 1965.
A squally day with light showers & sunny intervals. Sunday
Wind SW & very strong in gusts, & rather cold. Still a few snow drifts on NW face of Slieve Donard [illegible] of the [illegible].
Had walk in forenoon for an hour. Potted & brought into greenhouse yesterday a bit of the double white Primrose [illegible] along the main path in back garden — [illegible] the mauve & rose-coloured plant nearly [illegible] happy.
One of the 3 plants of Shortia has a beautiful flower on it, but a bud there was a few days ago has completely disappeared. Rhodo. "Elizabeth" has a few flowers already open.

12th April. Fresh snow, but only light covering on top 700 ft of Slieve Donard, following severe squalls & showers at 6.30 AM & an earlier one about 3 AM. Heavy hail showers, with thunder during one at 3.30 PM, all day, with hot sun between showers; wind W & strong to gale in showers, falling in early evening. Received by post from Knap Hill nursery four small plants (having flowers) of Rhodo. [illegible] & got them planted as shown on plan on p. 137 antea.

13th April. A very nice mainly sunny day & such showers as came our way were light & short. Wind moderate early, W–NW, but quite calm by 7 P.M. & very mild, as a warm front seems to be approaching from the Atlantic. Burned the little oak, raked & riddled stones off plot where potatoes will be planted, but ground very wet after recent rain.

14th April. A mild showery day with [illegible] continuous drizzle in late afternoon. Spent forenoon trimming heathers & fed Hippeastrum in big box for first time this year.

15th April. After some drizzle in early forenoon, we had a dry aft. with fresh W. wind. In afternoon I dug another plot in front lawn along drive & got yesterday's prunings all burnt.

16th April 1965. Good Friday
A fine sunny forenoon with NW, light, wind, followed by cloud & very light intermittent drizzle from 3.30 onwards & wind backing to SW as barometer begins to fall. Completed plot parallel to drive in front lawn & planted in its centre the well-rooted cutting of Prunus padus brought from Tullamore Park, I think, 3 years ago.

17th April. A squally day, with heavy showers, & gale ~~force~~ force wind from SW & falling barometer, but this turned up about 3.30 P.M. & wind went NW–N, with even stronger gusts, much colder & heavy showery weather. Snow warning at 6 P.M. for Scotland & N. England.
In forenoon I transplanted two shrubs from border along lower path in back garden to the new plot in front lawn, because they were getting overgrown by Rhododendrons where they were. These were Abeliophyllum distichum (nearest house!) & Corylopsis pauciflora (nearest gate!) on east side of the Prunus padus.
George & family arrived about 12 noon & left at 7.30 P.M.

18th April. Sunday (Easter Day).
As bad as yesterday! NW. showers & squalls of gale force from noon onwards, with hail & sleet mixed with the heavy rain.
Howard [illegible] ([illegible]) & [illegible] came in forenoon to look around garden as he & his wife had called on Friday evening! — & I treated them to an exhibition of my "[illegible]" ([illegible]!) which when standing [illegible] could see a trace of in a small area on Cotoneaster bank S. of the house, from which I subsequently picked & presented with a large specimen in flower or seed. Yesterday I received my copy of The Concise British Flora by Rev. W. Keble Martin with its 1486 coloured & plain ([illegible]) figures reproduced from his beautiful drawings. We had met him & his wife at [illegible], in [illegible], about 12 years ago (?) & saw some of his original paintings. Tonight I have written to offer him our congratulations!

19th April 1965. Easter Monday.

The wintry showers continued during the night & early morning & ended in a terrific hail storm about 9.15 A.M. After that we had mainly sunny weather till late afternoon, when more clouds invaded & wind remained strong to gale, cold all day. We are pleased to find the upper corrie of [illegible] above 1500 ft. covered with light snow & drift of snow along the north road between the Millstone Hill & [illegible] in bulk above the 1500 ft contour. In forenoon I had 1 1/2 hours walk in the woods, & after dinner I cut both front & back lawns & took 3 barrow-loads of muck out of the trench in the [illegible] & the upper "reservoir" on the little burn.

20th April Wind fell during night & after some cloud early, we had a most lovely sunny day — almost calm, but E or shore breeze during midday & very gentle N. breeze morning & evening. Cut paths & mossy in forenoon & excavated half of the dam of upper reservoir of the wee burn. Also gathered cuttings of Salix hibernica from the Glenesk, L.E. & Ben Bulben, Sligo, [illegible] & Salix repens X from Glenade to send Dr J. Davidson, [illegible] Muir, West Linton, Peeblesshire, who had written to ask for the cuttings of S. hibernica in response to my offer in my article in April number of the I. Nat. Journal. Posted 21/4/65. AWS

21st April. After a very slight frost which destroyed all the large flowered Rhododendron, named "Elizabeth" which were just approaching their best, we had a dry sunny day with little cold E wind instead of the warmer damp day with W. wind & "mist hill fog". The warmer damp weather has been forecast for two days, but now at 7.30 P.M. there is no sign of it arriving, though glass has been falling fairly all day. Spent day raking off [illegible] of Poa annua &c, in back garden.

22nd April 1965.
After a calm & dry night, but no frost, we were once more promised rain during the day from the west, but none fell till 4 P.M. from which time till 9 P.M. we had a very gentle drip & no decided wind. The forenoon was bright with warm sun & no wind, but cloudy from 2 P.M. onwards. Spent forenoon weeding & then put concrete on second side of upper dam on the wee burn, leaving only a narrow central passage for water which I will close in a few days' time. Later I dug the lower edge of path from garage to Azalea pontica. In evening I replied to Reginald W. Stelfox — a Liverpool dentist about to retire & take up research into Stelfox clan in Cheshire — with whom I have been put in touch by Mrs Nora Fisher McMillan of Bromborough, & from whom I had a letter thanking me for details of my father's ancestors to my great-great-grand parents, copied from my grandfather's note book on the family.

23rd April After a dry night we had a dry, calm & sunny forenoon, but cloud & drizzle commenced about 3.30 P.M. & continued into the evening. A very cold light W. breeze in morning, but warmer in rain & milder later. Pruned some shrubs & had bonfire & raked Poa annua seedlings of various plots where were potatoes last year in forenoon. Cleaned & scuffled border of wee burn opposite [illegible] in afternoon till rain came on, when found that Rubus chamaemorus had sent up half a dozen nice green leafy shoots & Carex grahami (collected near [illegible] & [illegible] Ben-an-Eachan, 1962) had a flower spike.

24th April. Barring some very slight drip in forenoon we had a nice day, but entirely cloudy & chilly E or variable breeze. "Pruned" all Erica carnea, now almost over, had bonfire & did miscellaneous clearing up & weeding.

25th April. Sunday. Entirely cloudy with gloom (E v. W) in forenoon with drip or drizzle, but clearing in late afternoon as wind rose & blew from NW. Had walk in plantation in forenoon & cut [illegible] of path behind the Ivy Rock which had blocked it since snowfall last month!

26th April 1965.
A cold day with frequent showers of wet hail & sleet & sunny intervals, with strong to gale NW–N. wind, after a dry night. The steel-work for the raspberry cage, [illegible] by [illegible] on 21st [illegible], delivered at noon. After lunch I [illegible] putting up & [illegible] before showers & wind drove me into the house.

27th April. After a dry & cold night with N. wind but no frost, we had a mild, sunny beautiful spring day, with no showers, & a light N. In forenoon I mixed 1 stone sulphate of iron & 2 stone sulphate of ammonia (left from some time ago in Broompatrick by Mr Caldwell) with sand to make "lawn sand" & commenced to scatter it on front lawn; after dinner I finished the scattering & went over them with yard brush. All completed by 4.30 PM. Then had bonfire & out to tea!

28th April. Cold with drizzle all afternoon, with light N–NE breeze, after some showers (?) & heavy dew at night. In forenoon did some weeding & started to erect raspberry cage, which is difficult owing to stones in ground at depth of 6–12 inches — ? the old surface layer.

29th April. A very fine day, but keen E wind at first brought the smoke haze & hill fog over the hills & the sun did not really get through till after midday, when wind fell & we had a warm almost calm afternoon. Heard from Mr Colville (Dundee) that he will not be coming to Newcastle on 18th May, as we expected. Spent day at the raspberry plot finishing the erection of cage, replacing 2 broken posts & starting to dig interspaces between the rows of raspberries.

30th April. A cold dry day with SE–E wind & haze, after a misty night but a few gleams of weak sun in afternoon. Dug one strip in raspberries, [illegible] load of muck out of two [illegible] near barn, cut paths in [illegible] & did some odd weeding. [illegible] with many flowers open though only 3 or 4 open yesterday. First deciduous azalea in flower.

1st May 1965
After a dry misty night the day started dull & 8 AM forecast promised rain spreading from SW before evening & although barograph commenced to fall about midday the sun came out & we had a lovely afternoon & evening & no sign of rain up to sunset. In forenoon first dug & cut front lawn (without grass box on machine) & later finished [illegible] the road, dug last week along the [illegible] W. of garage & got 3 barrow loads of burnable material. After dinner I cut away old [illegible] off the [illegible], brought in a seedling in 4" pot from Dobbie's which I had failed to [illegible]. With these burnings started bonfire & it was still burning at 8 P.M. In back garden saw a ♀ (? red form) of Bombus pratorum at flowers of Lungwort & a ♀ of [illegible] distincta, the first record for this year in both cases.

2nd May. Sunday. After a dry misty night we had a splash of rain at ten minutes to 8 A.M. followed by intermittent slight drops all day with the usual bitter cold E wind, which fell in late afternoon. The bonfire lit yest. afternoon continued to burn (smoulder) all day. In afternoon I had short walk up the Green Hill.

3rd May. After heavy rain during night, we had a fairly good day except for one ten-minute wet hail-shower lasting [illegible], light wind changing from SE to SW. [illegible] of late & [illegible] in afternoon, with a glass falling steadily all day. In forenoon spent some time with Mr Caldwell who has sold his house & has to clear out by 1st July, following the death of his wife at the New Year & he [illegible] before 1st Sept. In afternoon I started planting potatoes in the plot E. of the raspberries & W. of the [illegible] & Oak, & put in 3 cross rows of Home Guard, whose long sprouts I had to remove about six weeks ago & which don't look as if they had liked such treatment — see plan on loose leaf inserted at this page, 146.

4th May 1965.

After more rain during night & a dull start with E breeze, wind turned SW-W about 11 AM & we had a sunny windy day, but not much sun, tho' a heavy shower passed over about 6.15 & later sun came out again. Spent day planting potatoes. In forenoon I finished the plot E. of the raspberries with 3 short rows of Dutch Record & in afternoon I put in four rows of Ulster Chieftain in top border below the Scottish Willows & at W end of plot just E of where Daisy has sown her 1965 peas. First Small White Butterfly seen in front garden at dinner time. Cuckoo heard calling in Drumahilly

5th May. After a cloudy but dry night with fresh W wind, we had a dry & rather windy (W-NW) day, with occasional sunny intervals.

I continued to plant potatoes in upper border & E. of the 4 rows of Ulster Chieftain I got in 6 rows of Dutch Record, each row with 7 seeds, except the most E (next the row of hybrid Willows) which had 9 seeds, & all finished by dinner time. Row 5 (the 1st of today!) is without fertilizer — all the others, 6 to 10, have bonfire ashes, compost & fertilizer. In afternoon I planted 2 rows of Dutch Record at W. end of the upper plot between Daisy's peas & the new Strawberry bed, where there is room for 4 rows. In afternoon during a sunny spell I saw the first Speckled Wood Butterfly in back garden.

6th May. After a clear starry night rain set in at 8 AM & continued till sunset with light wind alternating from SW or SE. Dead calm in evening.

7th May. After a dry night today opened as yesterday with drizzle off & on till after dinner, when a SW. air-stream cleared the sky & we had a sunny afternoon & evening during which I pruned the two Forsythias in front border & cut out the Berberis at N. end of same, & finally after tea got the front lawn cut.

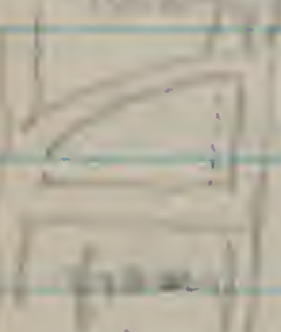
8th May 1965.

A very wild day after a windy night, but except for a slight shower at 10.30 AM. dry & mainly sunny till late afternoon, though according to BBC 1 o'clock News a shower occurred in Belfast which was so severe that "it stopped the traffic"! In forenoon I cut grass in waggy with hand mower & back lawn with electric mower & in afternoon I planted the two last (of four) drills of potatoes in top border (east end) of plot between Daisy's peas & strawberry plot. Later I put stakes to Daisy's first row of peas, now 2-3 inches in height. After tea fed the Helix aspersa in "P.1".

9th May. Sunday. Except for the semi-gale from W, as yesterday, this was a lovely, entirely dry & mainly sunny day: sun really hot about midday. I left home about 11 AM & went up through the wood & round S. side of Drumahilly from W. to E & home at 12.40 p.m. A few Bluebells just out & Wood Sorrel still with plenty of flowers; sedge with flower spikes, such as binervis, just showing. The Erodium cicutarium on roadside just W. of the highest point not yet in flower, but more very young seedlings visible since I was last there. Carex arenaria 70-80 paces below the "vertical" stretch of road now extends for several yards, in patches, & evidently means to stay if permitted & a couple of hundred yards below the ridge on same side (S) of road I came on a patch of a bright clear blue Viola in full flower which looks to me like V. canina & brought home specimens to dry & grow, if possible. The colour of flower & almost white spur suggest canina, rather than riviniana, but I am not certain of it. Took a specimen of the small very black form of the beetle Phosphuga (Silpha) subrotundata on way up through the plantation, & will send this to Dr. Marsac as I think it will interest him. Willow Warbler heard by our neighbour a week ago, but not by us till today, when Daisy heard several singing around the waggy.

10th May 1965.

After a dry & calm night, we had a very nice sunny day, except for an hour about 11AM when a local fog formed as E. wind replaced the SW wind, but no rain fell. Wind E. & chilly in evening, for rest of the day, falling calm at dusk. Spent day planting potatoes in upper plot between strawberries & compost heap — all Kerr's Pink, except 5 next path in 1st row next strawberries & last row next compost heap, which are Golden Wonder. Later planted uppermost rows in



plot E. of the frames with Golden Wonder, the 11 seeds next frame being the largest seed cut into 2 or 3. The first two rows next strawberries alone in upper plot got potato fertilizer today & the 5th row got good supply of sludge from the wee burn. The very upper row in plot got fertilizer which arrived at tea time before I had filled in the rows. During tea the second Small White Butterfly seen this year flew across front lawn & after tea I saw a ♀ of Vespa vulgaris in back garden.

11th May. A warm soft day, but cloudy till late afternoon, with a slight drizzle at times in early forenoon, after a dry cloudy night. At Mr Caldwell's before early dinner (12.30) & after seeing Dr Gibson, cut front lawn. Planted no potatoes today but had lumbago, & did some scuffling & weeding.

In afternoon, Daisy when at Post Office heard & saw two Swifts!

12th May. A mainly dull but warm day tempered by cool light E. wind. Spent day putting potato seed into main plot E. of frame. [illegible] In 2nd row first 16 Golden Wonder & all others contain "Blues", others of which rows 3 & 4 got no fertilizer & last row next lower path filled by 6 "Blue" seed given me by Mr Caldwell. A considerable portion of the compost put in consisted of sludge from the wee burn. Later & before tea I gathered 2 barrow loads of riddled stones off path, &c, & dumped them along burnside fence in waggy. Saw 1 Swift over back garden & ? House Martin during tea.

[illegible]

13th May 65

A very warm sunny day, with southerly wind — fresh in early part, falling calm in evening. After visiting Mr Caldwell in forenoon I spent rest of the day clearing up the Daphne blagayana patch on S. side of central mound (site of old greenhouse), where many plants had colonized the ground & were choking the Daphne, such as Shamrock, Viola riviniana, Pansies, Veronica serpyllifolia, Vicia sepium, &c &c. Very slow work because of the entanglement of these weeds with the Daphne, but got about the worst 1/3 done by 7 P.M.

14th May. Another very warm & mainly sunny day, almost calm after a calm misty night & early morning; for a couple of hours around midday an E breeze brought in a thick sea-fog, but this cleared after dinner, though cloud cover formed in late afternoon & at 7 P.M. a light drizzle commenced. Finished the clearing of the Daphne blagayana patch by 3.30 P.M. & then gave it a mulch of 3/4 peat, 1/4 sand, with a dash of nitro-chalk & two handfuls of potato fertilizer & watered all in with 3 gals. of water from fine rose-cans. After tea cut back lawn & finished the job as drizzle commenced to fall.

Yesterday I saw first Large White Butterfly at Mr Caldwell's & several Small Whites here in garden, as well as a faded Small Tortoiseshell (which seen again today), a Speckled Wood, & a newly fresh Small Copper at pink Mossy Saxifrage flowers in rockery. Today two ♀♀ wasps in greenhouse at 5.00 PM one of which was vulgaris & the other sylvestris. Finished 1st roll of film of garden today & posted same to Kodak.

15th May. A fine day after a fine night, but mainly cloudy, with slight drip after dinner & then a nice & sunny afternoon, clouding over in evening & rain promised for tomorrow. In forenoon I riddled stones of paths & various plots in back garden & at 3.30 R.C. Ferris arrived from Dublin bringing with him the typescript of second half of our

15/5/65, cont.

joint list of Irish Sawflies. After aft. tea he helped me to cut front lawn. He brought with him a clump of the Carex hibernica from the classic site above Galway's Bridge, Co. Kerry, which he had got last year & of which he had given me two small pieces to grow last year. These last I had planted on N. side of the wee burn in back garden opposite Dickson's where they have been overshadowed by the Parnell's hedge; the clump he brought today we planted also on N. side of the burn opposite & where the trickle from the weeping flows through its pipe into the burn & near his plant (Libertia!) brought from shore of Caragh Lake, Co. Kerry, a couple of years ago & for which we have not so far got a name — it being obviously escaped from the hotel or some other garden near Glenbeigh. Humming Bird Hawk moth at flowers of Azalea pontica. (one seen by Mr. Kelsall about same date at white azaleas!)

16th May. Sunday. Several House Martins seen during the day! After slight rain during early part of the night, a drip started about 8 A.M. & continued off & on till mid afternoon, when sun came out & became very warm, but cloudy, & dry from 5 P.M. till dusk. Wind light & very variable: cloud drift SW. Spent most of day indoors discussing sawflies with Faris, who left for home about 7 P.M. The dead & partly eaten body of a Humming Bird Hawk moth found just inside greenhouse in afternoon by Daisy!

17th May. After much rain during the night, we had a wet forenoon & evening (after 5 P.M.) but a moderate afternoon with some sunny spells. Wind light, variable, mainly E & cool. My niece, Jennie Lee, from Donaghadee arrived about 12.30 noon & left at 3.30 P.M. She came to see me & the garden. She took away with her the family MS. collected by my mother & which had been in possession of my eldest sister May. I had had the MSS. on loan since our visit to Donaghadee last summer. I promised to send Jennie a cutting of the yellow Cistus!
After she left I cut the grass in [illegible] in spite of it being very wet.

18th May 1965.

A bright, cold, but sunny & dry day, after some rain at night. Wind fresh N–NW in forenoon, falling light & variable in late afternoon. Snow fell in Scotland yesterday & widespread ground frost forecast as possible in N & W districts in Brit. Isles tonight. In evening I caught Philip Wood & he recognised Faris' "Iris" plant from shore of Lough Caragh, Kerry, as Libertia sp.

In forenoon I cleaned up edge of wee burn where outlet of second pool overflow joins it & dug out grasses & common rushes which had invaded various sedges & Juncus spp. The original plant of Juncus castaneus from Meall Garbh, Perthshire, which flowered last year has gone but left several seedlings, two of which are in flower though only 2–3 inches high: Juncus triglumis also in flower: as also Scirpus caespitosus caespitosus from N. ridge of Ben Lawers & Carex pauciflora from near Glenfinnan. Carex grahami from Beinn-an-Eachan, growing with Cotton Grass (E. angustifolium) in 2nd pool now in flower, as well as that in 1st pool & by outlet of 2nd pool on edge of the wee burn.

19th May. In spite of gloomy forecast, we had a beautiful clear sunny day, except for the usual cold E. on-shore wind during afternoon, after a light ground frost at night, which luckily did no damage; same forecast for tonight. With strawberries in full flower we can only hope for the best. First potatoes up in upper plot (Ulster Chieftain, planted on 6th May!) which I have covered. Mrs. Kirkland & a lady (Dr. Faulkner: now at Ballinahinch) called in afternoon. Wheeled in about a dozen rocks from building site across the road (with permission!!), had bonfire & cut back lawn & some odd jobs.

20th May 1965.

After another ground frost most Rhodos. & Azaleas in the upper part of back garden & with flowers ruined. Spent the day clearing up front lawn & removing Viola riviniana which had got too common & got the [illegible], & later got these all burnt [illegible]. Cold E. wind all day!

21st May. Rain or drizzle & fresh S. wind all day.

22nd May. As fine as yesterday was wet, but strong, & at times very cold SE wind, which dropped in evening, after a wet night. Garden very wet, but got front lawn cut before dinner & path in [illegible] cut by afternoon tea & then removed the last of Viola riviniana from the drive & edge of border beside [illegible]. Quite a good day's work. Sun hot & wind cold. Planted out the two last year's seedling Dahlias which had come through winter under heat in greenhouse.

23rd May. Sunday. A day of warm sun & cold showers with E.NE breeze. In forenoon I had two hours stroll in [illegible] plantation, during most of which it drizzled, but just before I came home sun came out & I caught with hand a ♂ Dolerus & ♀

In afternoon between 4 & 4.30 P.M. I swept round back garden for first time this season & took the following insects:—

Back garden 21 Tullybrannigan Rd., Newcastle, Co. DO.

[15 mtd. + Chalcid, & those labelled on 3.6.1965.]

Labelled "Garden, Tb."

Empis ♂, off Salix.

Phygadeuonid ♂, ant. 21 =

Atractodes tenebricosus? ♀, ant. 19.

Pimpla sp.? ant. 24: {the right hind tibia is normal, black with a white ring, while the left hind tibia is entirely red like the front & middle tibiae!

[illegible] [illegible] ♀, ant. 30

Earinus [illegible] ♂, ant. 33.

Euphorus 2 = E. pallipes, small ♂, ant. 25 E. xanthopus [illegible] ♀, ant. 18. = fasciatus Thomson fide Graham.

23.5.1965, cont. Back garden, cont.

Aspilota 2 ♀♀. ant. both 18, one with smoky wings = {♀ of fumipennis ♀, but propodeum rugose, mostly! Stigma small & short! / ♀ of nemoralis ♀

Dacnusa ♀, ant. 23

D. [illegible] ♂, ant. 39

D. laevipectus ♀, not mtd.

Chaenusa conjungens ♀, ant. 20.

Aphidius sp. ♂, dark legs: not mtd.

Proctotrupid ♂

Minute proctos & Chalcids: c. 18 & all jotted on one card.

[illegible] 2 (minute, wingless!): not mtd.

24th May. After rain during night we had quite a nice day without rain, but the usual cold SE-E breeze & not much sun. Erected the strawberry enclosure & dug last lane in raspberry plot. Garden very wet! 25th May. Tarmac spread outside front gate by [illegible] of Kilkeel for £6.10.0!

25th May. Another quite nice day but usual E & cold breeze & a couple of very light showers; mainly dull, but some good sunny spells also.

J. A. S. Stendall arrived at 12.30 noon & spent afternoon with us & left [illegible] 6.15 P.M. for Belfast. We had not seen him since his wife died early in the year. In afternoon with his help we got the net spread on top of the raspberry fruit cage. It took us all told about 1½ hours. In evening, Mr & Mrs Edgar brought 2 friends from Castlewellan to see the garden — a Mr & Mrs Smith. Mrs Smith [illegible] one of the [illegible]!

In forenoon I put more cement on the upper dam in the wee burn.

26th May. This opened with heavy drizzle & no wind, but the day was milder than of late, & some hot sun coming in afternoon. [illegible] from Mr Caldwell, who gave us plants of Sea Pink from coast of the Burren, Co. Clare & Asplenium adiantum-nigrum from Tullybrannigan, where road recently widened just W. of Tullybrannigan Burn.

27th May 1955.
A very rather harsh day! Wind moderate to fresh northerly & cold, but some good sunny spells in forenoon, after a dry & windy (N.) night. Cut front lawn & back lawn before dinner & paths in wuzzy before aft. tea. Later Rosina & I spread the nets over the two strawberry plots & I did some odd bits of weeding.

28th May. "Must have turned!" After a dry night we had however a cold drip all forenoon, but afternoon was dry with sunny intervals & by 5 P.M. the sky was clear & ground frost threatened; after tea wind (NE) dropped & sky overcast!

29th May. After a calm misty night & a dull start we had a lovely sunny afternoon with a gentle E. breeze. In forenoon I cut edges of paths in wuzzy with scythe & returned same to Mr Caldwell. In afternoon I had bonfire, weeded both strawberry plots & adjusted the nets over them with Rosina's help. Posted [illegible] principalis ♀ Type! & supposed Dipterous hosts to Griffiths & sent transparency of painting of Lady Arabella Stelfox & label off its frame to Nora Fisher McMillan, so that she could get an opinion of a lady in Liverpool Museum on the date of costume & if possible obtain name of the artist by means of ultra-violet light, as letter now illegible. Took about a dozen photos in garden in forenoon in sunlight & all at 1/50 of a second exposure, ending with photos of [illegible] [illegible] & [illegible].

30th May. Sunday. A miserable cloudy day with cold N. wind after a nice sunny early morning; drizzle commenced about 6.30 P.M. & after falling slightly all [illegible]. In forenoon did some weeding & pruning & in late aft. fed some [illegible].

31st May!

1st June 1955.
Virtually hot sun all day & almost calm, any breeze there was rose from the sea (E.) & was, as usual, cool to chilly. In forenoon I gathered the cut "hay" in wuzzy into small heaps & put in bags for sampling by [illegible], as several interesting species found in the hay last summer. Then started to cut out the brambles from the clump of old whins. After dinner I cut front lawn & later did miscellaneous hoeing of paths & shallots.

31st May. Moulded up all the potatoes most of which are now showing & in evening Capt & Mrs McLaren in evening brought their Garrick friends, Capt. & Mrs Brown, of Milngavie, Glasgow, to see the garden.

2nd June. After a clear night with heavy dew, but no frost, we had an entirely sunny day with very hot sun & cool very light E. breeze. Spent entire day cutting out the brambles & dead branches of the whins, in wuzzy.

3rd June. After a misty cloudy dry night we had a warm dry hot day with light cool E. breeze & much sun! wind turned SW. in evening. Spent day burning the brambles, &c, cut from clump of whins in wuzzy & got all burnt. Took photo of Marsh Orchid & "[illegible]" in flower!

4th June. After a dry cloudy windless night, we had a very light drizzle almost all day, no sun, cloud drift from S., but very light on-shore (E) breeze. Managed to get paths in wuzzy cut, in spite of drip, in forenoon, in afternoon fed all [illegible] & cut up whin sticks kept for fire lighters.

5th June. After a calm & wet night, drizzle (often very light) continued till after 4 P.M. so that the garden was nicely wetted & growth rampant. In forenoon removed another stage of upper dam on wee burn in wuzzy & after dinner transplanted two Rhodo. williamsianum, Kobresia caricina, Myosotis alpestris, Norw. Erigeron, seedlings [illegible] which had spent winter in pots in greenhouse.

157 6th June 1965. Sunday.

After a dull calm night & hazy early morning, we had a entirely sunny afternoon. At 11-30 AM I took net & went up into woods on Drumskill & collected till 12.40, then returned for dinner. Wind E-SE, most places were draughty & where sheltered vegetation too wet to sweep after yesterday's drizzle. No Hymenoptera seen on my favourite [illegible] where so many taken last year, but succeeded in taking the following:—

Bracken at foot of N. slope of Drumskill, [illegible] Co. Down. 11.40 AM 12.40 P.M.

Tenthredopsis nassata: several ♂♂ examined.

Strongylogaster lineata 1 ♀ taken, several seen, over Bracken.

Euceros ♂.

Anteon minute ♂.

Bombus pratorum, very fresh ♂: the 1st ♂ Bombus seen this year!

Barichneumon locutor ♂, not std. Aoplus ochropis ♂, ant. 37.

Tryphonines 5 = Trematopygus [illegible]? 3♂♂, ant 31, 32, 33.

Gen et sp? ♀, ant. 39: seen one last, but many differences! = Aethecerus [illegible], var.!

An Exenterus-like ♀, might possibly be Rhaestus ruficeps Holmgr.

Homocidus flavolineatus 3♂♂, others seen: not std.

Campoplegidae 2♂♂ not std.

Aperileptus in an unknown Först.? 2♂♂, ant. 21 & 22. One other? Plectiscidae = Symplecis xanthostoma Först.? ♀ ant. ♂ 21

[illegible] pallipes? ♂♂ not std. Euphorus thomsoni mihi, ant. 16. Euphoriana edentatus 3♀♀; ant. all 26.

Aphidiinae, minute black ♂: not std. E. fulvipes, 2(♀♀), very minute, ant. both 16.

Bethylidae 2 = [illegible]? ♂. Pantoclis subatricornis? ♂

Micro. Proctos, Chalcids & Cynipids: c. 12 std. on one card.

7th June. After a couple of hours of Scotch mist we had a warm sunny day, while a thunderstorm passed by to W → NW. & not a drop fell here. Whit Monday. George's family spent the day with us.

8th June 1965. 158

After another misty, bubbly night & similar forenoon (early), we had a warm rather humid day, with hazy sky & only occasional clear sunlight. At P.O. in morning, I posted 9 Dicranus hospita to Rudolf König & also saw Bobby Thornton about lamp for film projector. Then tackled cleaning up of my side of ditch opposite Dickson's garden & pruned the Pernettya which had grown out over the ditch instead of upright (for the most part!) — afternoon cut both front & back lawns. After tea got a few plants to take tomorrow to Donaghadee & Lisbane, for Jennie Lee (my niece) & Nellie Mitchell (King's sister-in-law)

9th June. After a blood-red sun at setting & a calm dewy night we had a very hot & entirely sunny day, which we spent at [illegible], Donaghadee, & Lisbane, near Comber. Home 6 P.M.

10th June. After a very heavy dew at night, we had another sunny warm day, but in afternoon sun obscured by haze & rain forecast during tomorrow from west. Spent forenoon cleaning path, riddling off stones & later filled two barrow-loads with mainly Geranium sylvaticum which had almost finished flowering & then got all this & other rubbish burnt before tea. First flower on Rosa canina (agg.) at front gate open yesterday: about 2 days late?

11th June. Drizzle started with SE wind about 10 AM. & continued till nearly 4 P.M. after which dry till sunset. A little rain during last night. Spent forenoon at one bank opposite Dickson's pruning Pernettya & clearing up. [illegible] Carex (? hibernica) from above Galway's Bridge, Killarney, much overgrown & must be moved: no sign of flower-spikes!

Later cut down Perennial Candytuft near Linnaea borealis, which latter just in flower, while Maianthemum convallaria just going over.

12th June 1965.

After rainy night it was a light fog, [illegible] but dull forenoon, then heavy rain with SE wind & a dry cloudy afternoon & evening.

Driven by McCaldwell to Slidderyford [illegible] a joint section of the N.F.C. led by Marion Gunning (née Forsyth) & [illegible] for botanical ecological lesson. After excursion party had returned by 4.15 bus from Dundrum, Marion G. & Dr. Knight came home with me for tea, & after tea drove with me to Glassdrumman, N. of Annalong, to get specimens of the grass Koeleria cristata for Brian Gunning to examine with aid of the electron microscope. We eventually found the grass just coming into flower in two places, (1) where J. P. Brunker discovered it beside S. of Glassdrumman Port & a furlong further S. & just N. of the outlet of the stream where Allium [illegible] grows, in both cases outside the boundary wall of the field & beside the path along the shore. Also saw Mertensia maritima & two plants of Glaucium luteum in same place & one plant of the Mertensia just N. of the [illegible] stream at "Altar" where we struck the coast. In forenoon, before the rain, I swept a few Parasitica in the dunes between Slidderyford & the sea, but very few insects about. Here follows list of insects swept:—

Sandhills S. of Murlough House, near Dundrum, Co. Down
10.30 AM till 1 PM.

[illegible] ♂, ant. 24.

Gelis cf. [illegible]? ♀, ant. 34: but coxae altered! [illegible] 2♀♀ = [illegible] minutus; {ant. 12.

Rogas bicolor ♂, ant. 45, var. almost entirely black, but orbits, [illegible] red-marked.

Microgaster globatus ♀.

Apanteles infimus ♀ (Hal. non Nixon!).

Perilitus aethiops ♂, ant. 27.

Micro-parasitica.

Bethylus fuscicornis var. ♂, very small, with testaceous antennae.

13th June 1965. Sunday.

A mild dry day, with S–SW wind & mainly sunny. In forenoon I spent 2 hours from 10.30 AM in plantation on N. slope of Drinnahilly & found Parasitica abundant (especially the micros!), a few listed below. In afternoon [illegible] after tea cut grass in [illegible] (the rain promised before tomorrow!) & did some weeding.

Insects taken in plantation on Drinnahilly, Co. Down. 10.30 – 12.30 noon.

Tenthredo ~~[illegible]~~ livida, black ♀. Tenthredopsis [illegible] ♂♂ var.

[illegible] ♂ [illegible]. "Neuroter" [illegible] ♀ [illegible]
[illegible] on underside of a Rhododendron leaf.

[illegible] ♂ [illegible]. Exolytus [illegible] ♂, ant. 27.

[illegible] = H. [illegible] ♂, ant. 28 & H. [illegible] ♂, ant. 20.

Tryphon [illegible] ♂ [illegible].

Polyblastus propinquus 2♂♂, ant. 29 & 30. Asthenara [illegible] ♂, ant. 29.

Campoplegid ♂ [illegible].

Apanteles ♂, [illegible]. Euphorus cf. pallipes? ♂, ant. 35.

Euphorus fulvipes? [illegible], ant. [illegible] 16.

[illegible] ♀: 1 [illegible] ant. 26. [illegible] ♀.

Adelura dictynna 2 ♂♂, ant. 45 & 48. Phaenocarpa ruficeps & dark ♂♂ [illegible].

Dacnusa only b = D. eros, 3 ♂♂, ant. 39, 41 & 42. D. [illegible]? ♂, ant. 33

D. gibbipes ♂, ant. . D. (R.) areolaris ♀, ant. 21

Proctos. 3 only at d. = Disogmus cf. areolator ♂ Cryptoserphus longitarsis ♂
[illegible] cf. [illegible] ♂

Very many minute

Chalcids. only minute [illegible] =

Many other minute!

14th June 1965. After a dry misty night we had a fine morning with E breeze but little sun; about midday hill-fog formed on the hills with SW wind & it almost drizzled, but did not do so till evening, when we had very slight drizzle, with falling glass & wind dropped to calm. Spent forenoon cutting front lawn & afternoon making bonfire. Lance & Lola Armstrong arrived after tea & spent evening with us.

15th June. After heavy rain & S. wind during night, we had further rain & drizzle in strong SE–SW wind most of the day, but during the afternoon it was mainly dry, with very [illegible] during which period I weeded about 12 yards of drive nearest front gate. During day I wrote letter to Dr Hans Fischer, Vienna, & packed up some specimens of the rarer species of Alyssum to send him [illegible].

16th June. A very nice mainly sunny day, but a few very light showers in early afternoon, none lasting more than a few minutes. Spent day finishing the cleaning up of the drive. In evening we had an unexpected visit from Mr & Mrs Higman, of Newquay, Cornwall, who had written to me in July 1964 asking if I knew where R. Ll. Praeger's "garden" on Errisbeg, Roundstone, was. See ref. under 28/7/65 on p. 55 antea.

17th June. A lovely morning, turning dull in afternoon with falling glass; drizzle commenced about 4 PM, followed by strong S–SW almost gale & heavy rains.

In forenoon I hoed "central mound" & space behind barberry hedge in front border & in afternoon cut weeds of barberry hedge.

18th June. Squally, rainy, with but many intervals, after a wet night: wind strong SW–W. Planted out the two seedling Rhodos given me on St. Patrick's day by Mr Harding of Stranmillis College, as follows:– R. sino-grande where the Cypress "Kilmacurragh" was in SW corner plot & R. crassa in place of the long dead R. cilpinense in same plot, on S. side. Sowed some seeds of Arenaria rubella in pot in greenhouse. First strawberry (R. Sovereign) ripe.

19th June 1965. A very nice mainly sunny day, after a dry night & brilliant early morning. Showers about in afternoon, but the only one we got was at 6.20 PM & lasted about 10 minutes, but nevertheless I got [illegible] immediately afterwards.

In forenoon I weeded strawberry plot next Andersons' hedge, finishing same in afternoon & then went back [illegible] before tea. Took two photos, one of which was of Cnicus heterophyllus, on which I captured by hand a ♂ Merodon fly & another Hover Fly (see below) & a subsequent time saw a ♀ [illegible] on flowers of this thistle & watched it sweep the pollen back with its front legs on to the "brush" beneath its body. This it did at very great speed! Wind W fresh!

The first specimen of Bombus lapidarius for 1965 seen at strawberries this afternoon: it was a ♀! Two Hover Flies taken on flowers of Cnicus heterophyllus = {

20th June. Sunday. A fine day, after a fine night. Warm, with much sun, & though plenty of cloud, & showers about none fell here. In forenoon I spent two hours in plantation on N. slope of Drinahilly, working up through the wood to upper road & then W. & home via the old track & middle road (11 till 1 PM) – sweeping here & there as I went & picking up any large insects I saw. Two small beetles shaken out of hay in buggy in Tollymore Road }=

Insects taken on Drinahilly, Newcastle, Co. Down, 11 AM till 1 PM.

Bombus jonellus queen ♂ & ♀, pratorum, of this season; ♀ both seen near spot where ♂ & ♀ pratorum taken on 13th June.

[illegible] [illegible] ♂

Syrphus [illegible] ♂♂ & ♀♀ frequent, none kept. [illegible] ♂ not kept.

Melanostoma scalare ♂ & [illegible] ♀♀ not kept.

Ichneumon [illegible]? ♀, ant. 34   [illegible] ♂♂ not kept.

[No tryphonids & no pimplids seen or swept!]

Polyblastus sp. = 4 ♂♂, ant. 28, 29 (2), 30, & 1 ♀, ant. 30.   [illegible] crassipes ♂, ant. 32.

[illegible] 2 ♂♂, 1 ♀ not kept.

Tryphon signator, 1 ♂, ant 34

Tryphonids 3 sp? = [illegible] crassipes ♂; see above. [illegible] of scapulare [illegible] ♂, ant 35.

& Stiphrosomus cf. antilope, ♂, ant. 25

163 / 20. 6. 65, cont. [illegible], C. DO, cont.

Homocidus 5 = H. alpinus, large ♀, ant. 30. H. subopaca, a large & typical ♀, ant. 22.
H. flavolineatus? a large ♀, ant. 32; a small ♀, ant. 21, & a small ♂, ant. 20, with yellow streaked hind tibiae? the sp.
Promethes pulchellus ♂, ant. 25.
Thersilochid 1 ♀, ant. 17.
Campoplegid ?, only 2 wtd. = Angitia of nana type. 1♂, 1♀, ant. both 23.

Mesochorus sp.? ♀, ant. 28: very slender long abd., terebra with short broad sheaths.
Apanteles of vitripennis 2 ♂♂, not wtd.
Bracon 3 = B. satanas, 2 ♀♀, ant. 31 & 33. B. cf. tenellus ?, large, ant. 33 {var.? with dark marked legs. AWS.
Apanteles 4: 2 wtd. = Ap. cf. solanicrum? ♀ & Ap. popularis?? ♂, but legs almost black
Euphorus 12 - assumed to be all pallipes & not wtd. [illegible] sp. ♂, not wtd.
Opius 2 (first of season!) = O. xanthogaster with a small ♂, ant. 32. O. [illegible], ♂ ant. 23.
Aspilota 8: only wtd. = A. [illegible] ♀, ant. 19.
Dacnusa 3 {D. ?? areolaris, but tergite 2 virtually hairless at base & very black & polished! ♂ ant. 21.
D. persimilis? a minute ♀ with antennae bitten off short.
D. adducta, ♀, ant. 29 - only of interest because neuration teneral, but body mature!
Coelinius elegans, Hal. 4 ♂♂, 1 ♀, ant. ♀, 27. ant ♂♂, 46, 49, 51 & 52.} (from right margin of road in one corner down W. side of triangle (where Belfast water pipe is!) from shepherds' old cottage to top of 'old track')
Aphidius spp. 12 mostly ♂♂ & so 3 only wtd. = Aph. scabiosae Marsh. ♀, ant. 15, also? ♂, ant. 18.
Aph. [illegible] Haliday ♀, ant. 17.
Proctos. {Aclista [illegible] ♂. Pantoclis similis? ♂. Spilomicrus tripartitus ♂ (= ♂ of 16.).
8 (+ micros not wtd.) = Zygota of microtoma? ♂. Cinetus piceus Thoms. 3♂♂, 1♀.
Chalcids ca. 10

Cynipids - none

164

21st June 1965. After rain during night, we had a dull day with [illegible] a warm damp SW cloud drift & a chilly on-shore E breeze with falling glass, which brought on a light drizzle in afternoon turning heavier in evening, but I managed to get front lawn cut before tea. In forenoon I finished cutting the bordering hedge along front border & road.

22nd June. A very nice dry day with NW breeze, after more rain in early part of night. Spent day trimming plants which had got too big & removing others which were over & about to seed, such as Irish Spurge, Carex [illegible] & Poa alpina. Later got most of the accumulated rubbish burnt.

23rd June. After a stormy & wet night (S.W.) sky cleared at 8 AM & we had a bright sunny forenoon with SW gusts up to gale force, then frequent heavy showers & windy gusts till evening. Cut down the last clumps of Euphorbia hiberna & took photo. of piece where spurge cut out yesterday; also weeded 183 young plants of the "invisible Poa" from about 3 square feet at E end of Daphne blagayana plot by central mound.

24th June. Rain or drizzle & strong SW wind most of the day, while sun shone through the rain at same time for the most part; a fair [illegible] in afternoon & we picked 10 oz. of strawberries, while first raspberry just ripening. No other work in garden possible. Saw a ♂ Megachile versicolor on flower of Cnicus heterophyllus & yesterday saw a ♂ Bombus jonellus on same plant.

25th June. After very heavy rain from dawn, it began to clear about 8 AM & we had a fresh dry day, with hot sun at times, except for a very heavy shower & squall at 12.30 noon. Spent all afternoon clearing up border between lawn & drive in front garden from steps half way to gate.

26th June. After a squally night with heavy rain, we had a squally day with showers in forenoon, then a dry afternoon, a heavy shower at 5.30 PM & then a calm & sunny evening. Got front lawn cut before afternoon shower & the grass in [illegible] cut after tea.

27th June 1965. Sunday

A very nice day after a dry night, but cloudy until late afternoon & evening. In forenoon I [illegible] the notes on the Haliday coll. of Alysiidae in Nat. Mus. Dublin made as I sorted out the species during 1934–1948 & also notes on the material sent to Haliday by Francis Walker in the 1830s so that I could get R.C. [illegible] to take them to the Nat. Museum in Dublin (Mr Roche) to be photostated.

Davis, his wife Jean & daughters Rosemary & Jennifer arrived from Belfast at 3.30 & departed for Dublin at 7 PM.

28th June. A very warm day with much hot sun & fresh SW-W wind, strong at times. Spent whole day weeding, pruning & having bonfire. Pruned "tree" of Buddleia globosa!

29th June. In forenoon cut up the Buddleia globosa prunings & in afternoon made bonfire of the larger parts & helped Davis pick 4 lb of strawberries & 3/4 lb of raspberries.

30th June. A fine dry day with sun & fresh W-NW breeze, which became quite cool in evening. Spent most of forenoon shaking the "hay" cut in wiggy a few weeks ago & "sucking" Coleoptera for Dr. A.M. Massee; also took the following Hymenoptera:—

Pezomachus of 'micidulus'? ♀, ant. 19. Pez. [illegible] of ♀, ant. 18. Opius [illegible] ♂, ant. 25.
Aspilota coracina ♀. Type! ant. 19. Very black, with dimple, smooth propodeum, head large semi-cubical. M.W.S. 16.8.1965.
A. (Synaldis) crassicornis ♀. Type! ant. stout, short, moniliform; prop. rugose; like filicornis but larger, stouter ant., [illegible] M.W.S. 16.8.1965.

In afternoon I cut (with sickle) the margins of several paths in wiggy & burnt the drier bits of the old hay.

1st July. Another hot & sunny day, which I spent in wiggy & cut back lawn after tea. Wind W-NW, cool, light, cloudy in late evening. Took very small, black ♀ Pezomachus running on wall in back garden.

2nd July 1965. After a misty night & [illegible] morning with NW wind & [illegible] [illegible] for a time [illegible] [illegible] hot [illegible] afternoon with cool NW wind [illegible] a somewhat hard day for plants! Spent forenoon trimming vegetation between burn-path & wee burn in back garden in several places & took cuttings of the Co. Leitrim (Glenade!) Salix hibernica & put some in trench between potatoes & compost heap. In afternoon gathered & burnt most of the hay in wiggy & some other rubbish.

3rd July. Another dry day after a dry cool night; not much sun till afternoon & wind light northerly & cool. Spent forenoon clearing up prunings cut yesterday by the burn in back garden; in afternoon did some hoeing & after tea George & I cut front lawn. George & April arrived for dinner at 1.30 PM to spend a week.

4th July. A similar day, mainly sunny day with cold fresh N wind. Sunday.

Spent 2 hours in forenoon in woods around ruins of Donard Lodge, as far as Lindsay's Leap. Took the following insects.

Woods around & above ruins of Donard Lodge, Newcastle, Co. Down, 10.30 – 12.30 noon.

Green Lacewing =
Cralora chrysostoma ♀. Anteon ♀
Ichneumonid ♀ = Gen. et sp.? ant. 23. head with [illegible]
Cryptinids 4, including Stilpnus ♂; not std.
Monoblastus palustris var. lucidus ♂♂ common; none std.
Polyblastus westringi 8♂♂, 1♀ (carrying larvae!); none std.
Catoglyptus fortipes ♂; not std.
Stenomacrus 2♂♂ = St. [illegible] ♂, ant. 24. St. of tenuicornis [illegible]: [illegible], head semi-cubical, ♂, ant. 19.
Tryphonids 3 = Lathrolestes of minutus ♂ ant. 27. Euryproctus? ♂ ant. 31

Campoplegid ♀ = Phaedroctonus transfuga ♀, ant. 26
Plectiscids 2 = Helictes mediator ♂, ant. 29 & Plectiscus [illegible] of collaris ?? ♀, ant. 21
Adelognathus granulatus ♂, ant. 14.

167. 4.7.1965, cont. Donard Lodge wood, DO, cont.

[illegible] [illegible] ♂, not std.

Rogas [illegible] sp. n. ♀ 'Type' ant. 45 (at first mistaken for [illegible], but sculpture of propodeum concentrically rugose, [illegible] [illegible] at apex front [illegible] & all [illegible] & base of [illegible] & [illegible] which, [illegible] at least [illegible] AWS. 21.7.65.)

Apanteles 3 = A. [illegible] ♀. A. [illegible] ♀
A. sp. ♀ [illegible], but too small & [illegible].

[illegible] [illegible] ♂, not std.

Opius 1 = O. cf. pallipes ♂ ant. 22.

Aspilota 10 + 1 ♀ = A. cf. spiculata ♀, ant. 17. A. cf. imitator, a small ♂, small prop., ant. 30.

Dacnusa areolaris 2 not std.

Aphidius spp. 2, ♂, 1 ♀ std. = Aph. cf. urticae ♀, ant. 19.

Monoctonus [illegible] ♂ not std.

Dyscritulus planiceps ♂, ant. 26

Diapriid 1 = Spilomicrus ♂ of sp 16, i.e. tripartitus of Nixon.

Belytid 1 = Ismarus flavicornis ♀.

Procto 1 = Cryptoserphus aculeator ♀.

Micros 4 std. = Mymarids 2 = Procto. 1 =

"Wingless" Chalcid 1 =

Micro. Proctos, Chalcids & Cynipids, ca. 20: none std.

5th July. After a dry cloudy night, we had an hour's light drizzle, 8 to 9 A.M., & then an entirely cloudy day, with light variable W. breeze, much milder than of late. In forenoon got all trimmings from burn path burnt & in afternoon went up Drumahill wood with Mr Caldwell for a sample of [illegible] & caught 3 [illegible] = [illegible] ([illegible], but won't fit; ant. 33.) =
[illegible] [illegible] [illegible] ♂ = Exochus pictus ♂, ant. 30.

6th July. After a dry night & a bright sunny forenoon, the afternoon was cloudy & threatening & drizzle commenced to fall in evening about 7 P.M. Spent most of forenoon picking & weeding 2 strawberry plots & afternoon thinning & pruning various things in rock garden,

168.

7th July 1965. As yesterday after a dry night a bright early morning then most of the day was cloudy with light N wind & several light drizzly showers, clearing up after tea with sunny intervals, [illegible] [illegible] the burn in forenoon & pruned Pyracantha in front garden & after lunch had bonfire & got all yesterday's prunings & hedge burnt before & after a shower & then did a little weeding.

8th July. A mainly cloudy, dry day, after a dry night, with cool N. breeze, falling calm in evening, but with a heavy short shower about 6.30 P.M. In forenoon & later pulled grass from clumps of sedges & did odd weeding.

9th July. After drizzle between 6.30 & 8.0 A.M. we had a dry, pleasant day, with light N. breeze falling calm & variable in afternoon & much sun after 3 P.M. George & family left about 11 A.M. for Ballygowan [illegible] Margaret's mother's sisters' home! Spent some time pruning in front garden & later had bonfire!

10th July. After heavy drizzle with SE wind in morning, we had a very nice afternoon when wind veered to SW. Added some concrete to upper dam on our burn in forenoon, picked strawberries with Daisy in afternoon & cut grass paths in [illegible].

11th July. Sunday. After some rain at night we had a very warm mainly sunny day, except for a heavy thunder shower (but no thunder) between 3.30 & 4.0 P.M. In forenoon I spent an hour weeding patch by the wee burn where Juncus, [illegible], etc, is in back garden & at 6.30 I went up the wood on N. slope of Drumahill, returning home at 9 P.M., where I collected the following hymenoptera: —

N. slope of Drumahill, Newcastle, Co. Down 6.30–9.0 P.M.

Hemiteles ♂, not std. Stilpnus, black ♂, not std.

Polysphinctae Acrodactyla madida, small ♂, ant. 24.

Polyblastus [illegible] 2 ♂♂, not std. Monoblastus palustris, var. [illegible] 3 ♂♂ not std.

Stenomacrus ventralis ♀, not std.

Tryphonid 2 = Tryphon incestus ♂, ant. 33; & a smaller ♂, ant. 32.

11-7-1965, cont. Drumahilly, DO, cont.

cf. also a ♀ taken at [illegible] Lodge on 16.7.1965 ANS

[illegible] pedemontanus 2 ♀♀, ant. both 25.

Exochus pictus (♂?), ant. 28. Mesochorus anomalus? ♂, ant. 31.

Plectiscidae 3 = Acroblapticus dentifer ♂, ant. 26.

Aperileptus ♀, ant. 22.

Plectiscus ♂, ant. 21.

Entelus brevicornis ♀, not ntd. Apanteles spp. 4, none ntd.

[illegible] subfasciatus ♂, with strongly clouded wings: not ntd.

Ascogaster instabilis ♀, ant. 33.

Eubazus pallipes ♀, ~~[illegible]~~, ant. 22.

Aspilota 2 = A. divisa S. & G. a small ♀ with rather darkened legs: ant. 18.

A. (Synaldis in right wing, Aspilota in left wing; very minute ♂, with dark legs, antennae broken off: n. sp.?

Dacnusa 2 = D. maculata Nixon 2 magnificent ♀♀, ant. 37 & 40, but clearly this species & not nominate Nixon, of which latter I have a ♀ paratype! ANS. 27.7.1965.

Aphidii 5: none ntd. Ephedrus lacertosus ♀, not ntd.

Proctos. 5 (2 minute not ntd.) = Cryptoserphus longitarsis Thoms. 2 ♂♂, 1 ♀!

Belytidae 5 = Cinetus cf. atriceps? ♂. Leptorhaptus cf. moniliconis? ♂.

Pantoclis cf. trisulcatus? ♂. Aclista cf. rufopetiolata?? ♂.

Cynipoid 2, Eucoilids, not ntd; brachypterous, minute, (♂?) =

Chalcids 5: ~~none~~ one ntd.

11.7.65 cont. A ♀ Odynerus (moribund!) taken on kitchen window, Newcastle, at 9 P.M. = O. parietinus, small ♀, with longer yellow on tergites than in southern specimens!

Pygostolus sticticus ♀ emerged from cocoon taken by Mr Haldwell on Drumahilly (when with me on 5th) on under side of bramble leaf!

12th July 1965. After a fine night & [illegible] bright early morning the day soon became cloudy, & wind blowing from [illegible] a bit after noon, [illegible] to heavy rain for several hours & [illegible] in evening after a cloudy afternoon.

In forenoon, before rain, I spent a couple of hours weeding [illegible] the lawn in back garden & just as I got mower out to cut front lawn down came the rain, so got no more done in garden today.

13th July. Rain, drizzle & dense hill fog from dawn till bed-time & with scarcely a breath of wind! Worked out rough preliminary description of [illegible] sp. nov. Only outing was to post in forenoon & to Donard Park & home via Mr [illegible] after tea.

14th July. Rain all night followed by rain & drizzle again all day, except for a couple of hours in afternoon. Took a barrow load of muck from upper reservoir in afternoon.

15th July. As nice a day as [illegible] had after a dry night, wind very light but still NE. No rain fell all day & sky gradually cleared to give many intervals in afternoon & an entirely sunny evening. Dug up the big clump of Carex axillaris as it was being choked by grass, like most other sedges in the sedge plot, & returned numerous small tufts of sedge which I will plant in various places. This C. axillaris came from a wet channel by siding at Adelaide Ry. Station, Co. Dublin, in 1921, where both parents C. remota & C. otrubae grew in abundance. After dinner I helped Daisy to pick about 6 lbs. of raspberries (with the [illegible] which I took to the nurses [illegible] after tea) & later cut front lawn.

16th July. A perfect day! Only a very light on-shore breeze & sun almost all day. Pruning & weeding in forenoon; picked strawberries & made bonfire in afternoon, dug grass out of sedge plot, & in evening cut back lawn. Saw a fresh (2nd brood) Small Tortoiseshell Butterfly. First flower on vegetable marrow opened yesterday — a ♀, but no ♂♂!

17th July 1965. Another [illegible] sunny perfect day, after a cold dewy night. In forenoon I trimmed beech hedge in front garden & made bonfire, after lunch [illegible] & more bonfire.

18th July. Sunday. After a fine night, we had hill fog, smoke-haze & S.E. wind this morning, which gradually obscured the sun & with increasing S wind a drizzle commenced about 3.30 P.M. which continued for rest of the day. At 11 AM. I went to the Donard Lodge woods & collected from entrance from the park to the waterfall (i.e. W. of Glen River) & E. of the river nearly as far as Hindmarsh's Keep. Most of the "micros" taken W. of river & most of the large E. of it, but except during [illegible] for minutes very few of the large [illegible] flying about!

Taken in wood E & W of Glen River, Donard Lodge, Newcastle, D.O. 11 AM. – 12.30 P.M.

Ichneumon [illegible] ♀, W. [illegible]; ♂ E. of Glen River: ant. ♂45; ♀42.
Ichneumoninae 2♂♂ (2 spp.) = Barichneumon locutor, dark ♂, ant. 30. Gen. et sp.? ♂, ant. 30
Cryptinae 3♂♂ = Hemiteles 2 (one minute); other gen. et sp.? : none ntd.
Meniscus catenator ♀ not ntd.
Colpomeria quadrisculpta? ♂ small, ant. 22; but I think this species {NB. This is the first time I have recognised the ♂ of quadrisculpta! Now I find mixed with tuberosa!! A.W.S. 1965.
Polyblastus wahlbergi 3♂♂ & 1♀ (carrying larvae); none ntd.
[illegible] [illegible] 2♂♂
Gen. et sp.? ♂ [illegible] = Ctenischus pictus ♂, ant. 32.
[illegible]
[illegible] anomalus? [illegible] ♀, ant. 27. Cf. also a ♂ taken in [illegible] woods on 11.7.'65!
[illegible] 2♂♂ = S. holmgreni, var.? ♂, ant. 32. A larger ♂: S. crassicornis? but [illegible] ant. 34.
Plectiscus? ♀ = Plectiscus cf. tenuicornis??, ♀, ant. 18.
[illegible] ♂ & Phygadeuon [illegible] ♂: neither ntd.
[illegible] praecipua ♀, ant 27
[illegible] longiradialis ♂ not ntd.
Thersilochus 2♀♀ (2 spp.) = T. [illegible] ♀, ant. 12 & T. [illegible] ♀, ant. 11.

[illegible] [illegible] ♂, [illegible] with [illegible] black & [illegible].
Ophioninae [illegible] none ntd.
Proctotrupidae [illegible], Belytidae 3 [Belyta [illegible] Proctotrupoid?] = Ismarus flavicornis ♀
Pantoclis [illegible] ♀. Pantoclis [illegible] ♀.
Micro. Proctos, [illegible] & [illegible], [illegible] none [illegible] =

[About this date I caught a Plume moth in back garden "standing" like a bee the flowers of an Erica [illegible] in upper border, which Bayne says in litt. 28.7.65 is Amblyptilia acanthodactyla Hübner & same as one I took in Oct. 1963 & one [illegible] time.]

19th July. After torrential rain around midnight, we had a very warm & humid day — almost calm & dull with hill-fog till about 3.30 PM. when sun broke through & then again dull, warm, midgy & humid, with "heat-spots" in evening, but no rain. In forenoon I pruned Arbutus, Azaleas, Rhamnus & Viburnum [illegible], etc. in back garden. After dinner we picked raspberries & after afternoon tea I cleared most of the [illegible] plantago seedlings out of the plastic pond with the leaf-rake & did other odd jobs.

20th July. Similar to yesterday & started with much hill-fog, muggy, with SE light breeze after a dry misty night, but afternoon mainly sunny & very warm & no dew.

In forenoon replanted pieces of the Iris [illegible] recently dug up & cleared of invading grass; several pieces put back in nursery plot where it came from & others planted in two centres on N. edge of the wee burn opposite W. corner of Erickson's garden. In rest of day attended bonfire.

21st July. Warm cloudy forenoon, after a dry night, but rain all afternoon from 3.15 till 6 PM. Then a fine evening. Wind [illegible] & light. Spent forenoon clearing banks of the wee burn opposite Erickson's & Brown's gardens. Had [illegible] & [illegible] in afternoon.

173/ 22nd July 1965. After a dry night we had a calm & sunny day & warm day, but several showers from 1 o'clock onwards kept garden very damp. In forenoon I continued clearing up side of the wee burn in the meggy. But more comment in upper den & rear I did miscellaneous jobs in afternoon between the showers.

23rd July. After almost ground frost & a very heavy dew during night we had a calm, dull, muggy day, with occasional very light drizzle & only a few brief glimpses of the sun. Any breeze there was was N or NE.

In forenoon I gathered some "hay" (& stored it in the shed) from along the wee burn in meggy. In early afternoon I cut front lawn & Ulster Grain & I finished about the last of the strawberries.

24th July. After some rain at night, we had a fine forenoon & midday, during which I tidied up the paths in the meggy preparatory to cutting grass in afternoon, but then I went out to do so the edge of a thunderstorm to NW brought on rain which lasted till tea time. Mr Anderson commenced to cut our side of his hedge, but only got the front done when rain interrupted the work.

25th July. Sunday. A fine, but mainly dull day, after a dry cloudy night, wind negligible, ?NW. Wrote letters in forenoon & collected from 2 till 5 P.M. in Donard Lodge woods, E. of Glen River, as far as Lindsay's Leap & then up to 2nd bridge over the fall. Took the following insects:—

Woods above site of Donard Lodge, Newcastle, Co. Down. 2–5 P.M.

Ichneumonid, black & yellow ♂, 1st specimen = Ichneumon cf. confusorius ♂, ant. 38.

" black, small, ♂♂, common: 5 mtd. = Platylabus lariciatae Kriech. ♀ 3 ♂♂ mtd. ant. all 34. (a cpl. of J.F.P.) (1 ♂ sent to B.M. & confirmed by J.F.P. in letter from J. Quinlan dated 15.[illegible].1966)

Cryptinid ♂ = Phygadeuon? ♂, ant. 31, red abdomen.

Promethes laticarpus ♂: not mtd.

Perilissus 2 = P. filicornis ♂, ant 46 & P. dissimilis ♀, ant. 36.

25/7/1965, cont. Woods, Donard Lodge, D.D., cont. 174

[illegible] pallidus [illegible], 2 ♂♂ not mtd.

Polyblastus [illegible]: abundant, the commonest here: none kept.

Anomalid ♂ at [illegible] under bridge at Lindsay's Leap = Agrypon [illegible] Thom., ant. 4.

Campoplegids 2 = Olesicampe [illegible] ♀, ant bitten off short: [illegible]!

Angitia [illegible]? ♂ ant 31 [illegible]! A.W.S.

Rogas [illegible] ♂, small, dark, ant. 42.

Microctonus sp. n. ♀, ant. 20: type ♀ from Yellowham Wood, Dorset, 27.5.1950.

Opius [illegible] ♂

Aspilota 2 ♂♂ = A. fuscescens? a minute ♂, ant. 19; [illegible] pale, ♂. A. (Synaldis) prudenticornis? ♂, ant. 22.

Dacnusa longiradialis ♂: not mtd.

Aphidius spp. 4: 1 ♀ only mtd. = Aphidius cf. [illegible] ♀, ant 15 [illegible]!

Bracon 2: only one mtd. = [illegible]? sp ♂.

Also several "micros"

Chalcids 2 micros mtd. =

several others not mtd.

26th July. A dry, chilly & mainly dull day, with NW wind. In forenoon I cut grass in meggy, although it was very wet. In afternoon I got a lot of rubbish burnt out last week & did some weeding.

When bringing material to bonfire I took a [illegible] of Vespa austriaca & a [illegible] of [illegible] ♀, ant. 20.

27th July. Another dull day, but dry till late afternoon when wind backed from SW to SE & drizzle came on. In forenoon I cleaned out tub at SW corner of old greenhouse & replanted the [illegible] Carex limosa & Ranunculus flammula it had got choked with species of grass, Juncus & Scirpus & still some [illegible] in it. In afternoon I had another bonfire & got rid of more rubbish. Before replanting the tub I filled it up with a mixture of soil, peat, ashes & vermiculite!

28th July 1965.

Another dull day after a dry rather windy night (S.) but drizzle & S. gusty wind from 3.30 PM onwards. In forenoon cut off old blooms &c. from various plants & in afternoon wrote letters.

29th July. Turned wet after a rather stormy (W) night & some rain, but a fair dry & sunny spells during the day. The forenoon was very wild with gusty W wind, which fell towards evening.
Could do little in garden, so [illegible] & wrote letters.

30th July. A most beautiful & sunny day with light cool N breeze & ground frost warning for tonight! No showers after a dry night!!
Spent morning cutting down & trimming various things in & around rock garden, & in afternoon got a lot burnt. Also removed & packed up the nets off both strawberry plots & cleared these of last fruits.

31st July. A day of heavy showers, W-NW wind & sunny intervals, but started to cut front & back lawns immediately after breakfast & got finished just as first shower commenced. Except for a little weeding, all I did in garden else was to dig one potato plant of Western Chieftain – that next [illegible] in upper plot in the row E of [illegible] [illegible], which were planted on 4th May – it yielded two large spuds & 5 smaller, eatable, & 1 seed.

1st August. Sunday. After a dry windy (SW) night, we had a beautiful, fresh cool sunny early forenoon, during which I walked up through the plantation & round the back of Drinnahilly (from W to E) & home past the cottage, sweeping & collecting at intervals on way up & as far as foot of the straight road on way down, then at 12.30 noon the first shower of the day came & I put away the net. Insects taken were as follows :—

Drinnahilly wood, above Newcastle, Co Down. — 10.30–12.30.

Dolerus aeneus, 2nd brood, ♂♂ numerous.

[illegible] ♂: badly damaged!

Ichneumon gracilentus, small black & yellow ♂, ant 36.

1.8.1965, cont. Drinnahilly woods, DO., cont.

[illegible] sp. ♂ small black: not mtd.

Ichneumonids, 2 = Aoplus [illegible] ♂ ant. 34. A. [illegible] ♂ ant. 35.

Phaeogenes sp. ♂. ant 28 (cf. [illegible]?).

Cryptinids 9: only 3 small mtd. = [illegible] ♀, ant. 19. Aptesis [illegible] ♀ ant. 20.

Also a fully winged ♂ ant. 20, which might just possibly be the ♂ of [illegible]! Hemiteles [illegible], small ♀, ant. 19.

Lissonota cylindrator ♂. ant. 43.

Pimpla flavicoxis? a very small ♂: not mtd.

Exochus sp. (pictus? ♂, probably this species: not mtd.

Stenomacrus [illegible] ♀: not mtd.

Monoblastus palustris or laevis? ♂ ~~[illegible]~~ not mtd. Polyblastus [illegible]: [illegible] not mtd.

Homocidus signatus, ♀, ant. 21.   Mesoleiid? ♂ ant. 32 slender bright [illegible] cf. ♂ taken at [illegible] (?)26.7.60.

Polyblastus-like ♂, with large yellow blotch at angle of cheek & face, ant. 28: head semicircular.

Hadrodactylus [illegible] ♀, ant. 43: correctly this in Schmiedeknecht's key!

Mesochorus sp.? ♂, larger, ant 36.

" sp.? ♂, smaller, ant. 31

Campoplegids 9 ♀♂: none mtd.

Plectiscids ♂ & ♀ = Pantisarthrus cf.? inaequalis ♂ ant. 21, ♀ ant. 22. Entypoma [illegible] small ♀ ant. 17.

Opius analis, ♀, damaged, on side.: ant. very long, 43-segmented.

Aspilota 4: 3 mtd. = A. cynipsidis ♀, ant. 20+, [illegible]   A. fuscicornis ♀, ant. 17.

A. sp.? ♂ ant. 23.

Dacnusa discolor, D. longiradialis & D. [illegible] 2 ♀♂: none mtd.

Aphidiids 3: only 1 mount. ♀ mtd. = Aph. of brassicae? ♀, ant. 14, with 3 pairs of [illegible] tentacles, short & thickened towards apex.

Belytids 5 = Xiphosa [illegible] ♀. Pantoclis similis? ♀. Leptorhaptus [illegible]? ♂

Belyta? ♂.   Acliste? ♂

Proctos. 1♂ ♀ = Cryptoserphus longitarsis ♀. Exallonyx confusus 2 small ♀♀. Ex. ligatus ♀.
Also 1 micro.

micro. Chalcids &c. about 20: 16 dotted on one card.

Cynipid. 1 micro. mtd. =

179 2nd August 1965.
Rain all day, but only light SE–E breeze or calm.

3rd August. A very beautiful sunny day after a stormy night, with much warm sun & light W breeze. Mr Caldwell called for me about 10.0 AM & drove me to Slidderry Ford & we spent the forenoon looking for & obtaining plants of Carex distans on N. side of the estuary of the Ballyhornan River (where it enters Inner Dundrum Bay). I also took the opportunity to sweep the salt marsh, &c, between & below the road on left (N.) bank. The sweeps occurred between 100 & 300 yards E. of the deserted railway. Here took the following insects 10.30 till 12 noon:–

Salt marsh &c. on left (N.) bank of estuary of Ballyhornan River at
Slidderry Ford ("The Twelve Arches"), S. of Dundrum, Co Down.

Carteron's ♂, ran about on window with open wings & waving them like the little black
Diptera with black stripes on wings! –

Atractodes tenebricosus ♀, ant. 19.
Hemiteles? sp. small, black, ♀, ant. 20
H.? sp. a minute black ♂, ant. 19.
Apanteles infimus ♀ (= infimus Hal. (Wilkinson, non Marshall!)).
Dacnusa areolaris 2♂♂ & D. cyclops ♂; none mtd.
D. tester? ♂, small, ant. 22.
Proc. elegitarum several: not mtd, ant 17. Tanycarpa tricornis ♀, minute, ant. 10.
Ephedrus plagiator ♂: not mtd. Aphidiine spp. 1♀ only mtd. = A. avenae, small ♀, ant. 17.
minute Chalcid & Proctos: 1 only mtd.: like a Mymarid, but ?? antennae. Trichogrammid?

Beetle ["Full stop"]! =

4th Aug. 1965 Rain all day, wind light SE, early, dropping calm before midday & fresh S–SW. in evening. Posted plant(s) of Carex distans, obtained yesterday, & seedling C. binervis from garden to Mr. S. S. Hooper of R. Bot Gardens, Kew. 2/5

5th Aug. Except for a strong SW wind, we had a beautifully sunny day & the only shower about 7 PM lasted merely a minute, after rain late at night & early morning bright & dry. Cut grass in mossy front thing & later dug 3 rows of Ulster Chieftain potatoes in top border & E. of the peas. Also had bonfire. Saw a ♂ Vespa austriaca at the oak.

6th Aug. After a fine night a very nice sunny forenoon; first shower at 1 PM & from then till tea time frequent thundery showers – some very heavy, & the only work in garden I got done was to scuffle the path along lawn from garage to clothes-line post & in hope I would get the weeds raked up tomorrow. In forenoon I posted specimens of Carex dioica ♀ (from small flowering, N. of Killin, Mid Perth) & Sandwith's sedge (from N. corrie of Ben Lawers) to Chris Jermy at B.M.

7.8.65, Lissonota [illegible] ♀, ant. 24, on grass outside garden door.

7th Aug. A mainly sunny day, but light showers in afternoon, wind NW & moderate, falling in evening. Got front lawn cut in forenoon with only one light sniff of a shower, which barely lasted a minute, but several passed over the hills, seawards, missing us. Also started to clean up the strawberry plot in top border. After dinner, several showers fell but later in afternoon I got the weeds raked off path by the lawn W. of garage, which I had scuffled yesterday & also did some weeding of paths.

8th August. Sunday. A very fine day, with much warm sun, but cloudy spells & a cool E breeze in afternoon for a time, dry after a dry night. Spent forenoon in Donard Lodge wood, 10.0 till 12.30 noon & collected from the stone grotto to Lindsay's Leap & took the following insects (See p. 179 →)
Myrmica ruginodis 'swarming' on back lawn near Erica mediterranea in afternoon & ♂, ♀ (winged) & ♀ taken!

8/8/1965, cont.

Durward Lodge, wood, Newcastle, Co. Down, cont. 10.30 till 12.30 noon.

Vespa spp. many ♂♂ seen, including V. austriaca of which ♂ taken.
Bombus: fresh ♂♂ of B. pratorum frequent!
Psithyrus barbutellus, 1 very fresh ♀ seen on bramble flower; also a ♂ seen.
Crabro [illegible] 2 ♂♂ taken on bramble leaves; 1 only.
Ichneumonidae 2 ♂♂, 1 ♀ (which stung my finger!) including Ichn. locutor
I. suspiciosus ♂, ant. 42. Aoplus defraudator ♂ & ♀, ant. both 36.
Aoplus [illegible] ♂, ant. 35.
Gen. et sp. ♀, ant 25, [illegible] ½ white; See note below! → Ant. white banded, much thickened apically!
Ich. deliratorius ♂♂ seen. Amblyteles [illegible] ♂, ant. 46
Cryptinids 1 (+1 ? possibly an Ichneumonid?) + 1 [illegible] ♀ = Phygadeuon [illegible] ♀ ant. 16.
=
Pimpla flavicoxis? ♀, sitting on Rhododendron leaf & "calling" with wings spread at angle of 45° & abdomen raised vertically!
[illegible] praerogator ♂: first seen this year! Not std. Monoblastus palustris var. laricis ♂, ant. 31. Others seen.
Tryphonids ? 1: not std.
Campoplex [illegible] Thoms. red ♀, large: one seen! ant 40
Campoplegids 5: none std. Agrypon stenostigma ♂, ant. 41.
[illegible] [illegible] ♂ not std. [illegible] fulvipes? ♀, with yellowish stigma.
Ophion sp. ♀, black abd. with red apex! not std.
Procto. ♂ = Phaenoserphus pallipes ♂
Chalcids, ♂ (micro) 5. NB. Could not sweep as grass very wet!
[illegible] Diplazon ♀ =
Bug 1 =

9th August. Another really lovely & sunny day with gentle E. breeze after almost-frost at night. Had bonfire & dug 2½ rows of Arran Chieftain potatoes in top border on east side of peas, cleared some Sweet William, Saxifrage & Pansies out of front border & put up wire netting to dry Harry's shallots.

10th August 1965.
Although the forecast was bad & the day began with hill-fog, SE wind, & after breakfast a slight drizzle, the rest of the day was very fine with almost continuous hot sun, though the E. wind was keen & cool in front garden. Spent most of day making bonfire & gathering material for it from front border. Also dug the first of the Dutch Record potatoes (5 plants in 2nd row, top border, & west of the peas & from these 5 got 45 eatable spuds + 7 seed, none very large, but a nice average size).

11th August. A very poor day & virtually no sun, with strong SE & wind — almost gale in evening! — & dense smoke-haze over hills all day, though from the west (inland!) & cloud drift higher & SW, after a windy night: except for cold or slow wind, it would have been a warm & probably humid day, but when about 10 AM. the E wind hit the damp warm air a light drizzle started which lasted till 1 PM. The afternoon was dull, dry & windy, during which I dug the last two rows of Dutch Record potatoes between Peas & Strawberries in top border.

12th August. In spite of a poor forecast & usual smoke haze & SE breeze, we had a very hot sunny day as wind veered S. about 10 AM. In forenoon I dug the 3 rows of Home Guard potatoes between raspberries & the [illegible] & got a fair crop from small & mostly large spuds, the best being 3 [illegible] from bottom grown from small seed. In afternoon I made a bonfire & got ready the season's first, real consignment of sedges to post to Kew on Saturday, namely laevigata, demissa?, demissa, sylvatica, capillaris, depauperata & pseudocyperus.

13th Aug. Again in spite of poor forecast & some slight drizzle about 11.30 AM, we had a fine dry warm day, but not much sun. In forenoon dug last 4 rows of potatoes between raspberries & [illegible] & got good crop of Dutch Record from 3 top rows (eleven plants — a full basket to eat + 15 seed). After lunch

13/8/1965, cont.

cut grass in [illegible] & later started to thin & prune the vegetation around the second island & loop in the wee burn in back garden, which had got out of hand, as I was unable to get this done last autumn or winter. Here found the plant of Spindle Tree now 4 ft high, grown from cutting from plant by Tullyhenogue Farm 1 mile W. of us. After tea cut front lawn! A good day's work for "old Cooper"!!!

14th August. After the usual thick smoke haze & a slight drizzle in the [illegible] cleared about 10.30 AM. we had another pleasant warm day with sunny spells in afternoon. Saturday!

George & family here for day. In forenoon spotted sedge, 1 to 7 to Mrs. Hooper at Kew Gardens. In afternoon I had bonfire, cleaned out upper reservoir on wee burn & dug a row of Dutch Record potatoes in top border of back garden.

15th August - Sunday. After a shower during night & light NW breeze vegetation very wet, but we had a dry pleasantly warm day, though not much sun. Left home at 10 AM & walked to Tipperary Wood, on right bank of Shimna River, above bridge on Bryansford Road & collected there till 12.20 noon, my main object being to get plants of the sedges Carex rostrata & C. vesicaria which grew in the swamp at SE corner of the wood. Got the C. rostrata all right but the spot where the vesicaria had grown now covered with 7 ft. high growth of Phalaris arundinacea, Oenanthe crocata, nettles, &c, & though I located a small patch of "a sedge" amongst the Reed Grass, I fear it is only an outlier of the rostrata patch: there were no flower spikes to be seen on either. Swept where possible around marsh & along path by Shimna & margin of river for 100 yards above where river had eaten away its right bank & took the following insects

15 . 8 . 1965, cont.

Insects taken in or around Tipperary Wood, Newcastle, Co. Down, 10.00 – 12.20 noon.

Sciarid & [illegible] of [illegible] ! [illegible] yellow : not [illegible]

Empidid. 5, including Rhamphomyia 2 ♀♀ : not [illegible]

Homoptera ? : none [illegible].

[No Pimplinids]

Promethes [illegible] ♂, Bassus [illegible] ♂ [illegible] Homocidus [illegible] ♀ : none [illegible].

Mesoleius [illegible] ♀, ant. 33.

Phaeogenes [illegible] ♀ [illegible]   Stenomacrus   ♂

Mesochorus sp. ♂, ant. 27.

Campoplegid ♀ = Anilasta tricincta? ♀, ant. 29.

Aperileptus & Helictes 1♂ of each : not [illegible]

Rhyssalus clavator ♂

Opius 3 = Opius comatus ♂, very with small stemmed ! Ant. 29 probably [illegible] off [illegible] !
O. sp. [illegible] near quercetus! ♂, ant. 28, wings rather narrow & dark! O. cf. [illegible] ♂ ? : ant. 22.

Aspilota [illegible] ♀ ant. 20.

A. crassifemur ♂ ant. 25.

Pentapleura pumilio ♀ : dark legs : not [illegible]. | Aspilota fuscicornis ? 2 ♀♀, ant. both 17.

Aspilota 12 = A. cf. apiculata ♀, ant. 21. A. brevithorax n. sp. Type! ♀, ant. 20; also ♂ (?) ant. 22 : thorax short & high, [illegible] ! [illegible]
A. cf. clara 2 ♂♂, ant. 20 & 21. A. cf. [illegible], 2 minute, dark-legged ♂♂, ant. 15 & 16.
A ([illegible]) cf. [illegible] ♀, ant. 17.

Dacnusa laevipectus, 4 ♀♀, ant. 22, 23, 23, 33! [illegible]!!

D. [illegible] ? ♀, ant. 22.   D. [illegible] ♂, ant. 26.

D. [illegible], small ♂, ant. 26

Ephedrus plagiator 2 ♂♂ & Trioxys [illegible] ♀ : neither [illegible].

Aphidiids [illegible] = Praon volucre ♀, ant. 21, yellowish base.

Aphidius pseudoplatani ♀, ant. 16.

Diapriids 3. Aneurhynchus ♂ of sp. no. 8.   Trichopria ♂ of sp. 1 ?

Basalys ? ♂ of sp. 5.

Belytids 1 = Aclista rufopetiolata ♂

micro. Proctos 2 minute & [illegible], Ceraphron group ?

micro. Chalcids, Braconids, Cynipids, ca 30 : none [illegible].